AIRSTAGE™ VRF Systems can be designed to create an air conditioning solution to suit most buildings requirements.

AIRSTAGE™ VRF Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.

AIRSTAGE™

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V R F

Fujitsu General provides multi air conditioning systems for buildings AIRSTAGE™ Series matched to the size and application of the property

A pleasant air conditioned environment matched to the needs is created by combining a wide variety of outdoor units, indoor units, and controllers.

Outdoor Units Line-up Page 110~

Heat Pump type for heating or cooling operation

NEW

Systems for large homes to medium sized offices, shops

4HP, 5HP, 6HP 3 models

AIRSTAGE™ J-IIS

Heat Pump type for heating or cooling operation

Systems for large homes to medium sized offices, shops

4HP, 5HP, 6HP 3 models

AIRSTAGE™ J-II

Indoor Units & Ventilations Line-up Page 134~

Capacity range 1.1 kW to 25.0 kW (J-II can be connected up to 14.0 kW.)

Compact Cassette

Cassette

Low Static Pressure Duct

Slim Duct
(With drain pump)

Medium Static Pressure Duct

High Static Pressure Duct

Floor / Ceiling

Ceiling

Wall Mounted
(EEV internal / EEV external)

Wall Mounted

NEW **Outdoor Air Unit 3 models** Page 166~

Heat Pump type for heating or cooling operation

Systems for large offices, hotels, and large composite facilities

8HP-48HP 33models

- Space saving combination : 8HP to 48HP / 21 models
- Energy efficiency combination : 16HP to 44HP / 12 models

AIRSTAGE™ V-II

Heat Recovery type for simultaneous heating and cooling operation

Systems compatible with individual operation mode control, as well as large offices, hotels, and large composite facilities

8HP-48HP 34models

- Space saving combination : 8HP to 48HP / 21 models
- Energy efficiency combination : 16HP to 44HP / 13 models

AIRSTAGE™ VR-II

Various Easy-to-use Controllers Page 140~

User's needs are supported by offering a variety of controls, such as individual control, central control, and building management control options.

Wireless Remote Controller

Simple Remote Controller

NEW

Wired Remote Controller

Wired Remote Controller (Touch Panel)

Group Remote Controller

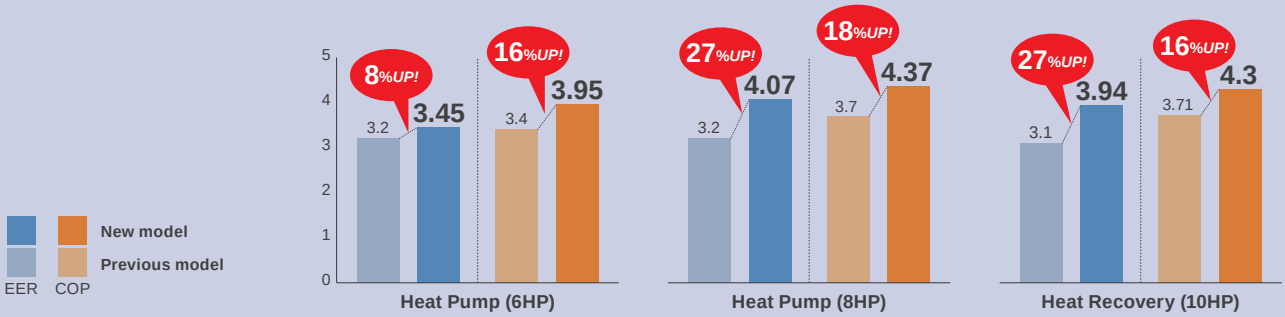
Central Remote Controller

Touch Panel Controller

System Controller
System Controller Lite (Software)

Highly Energy Efficiency

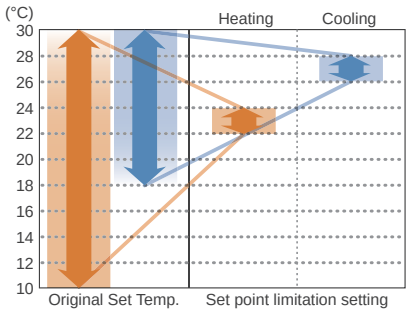
Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger



Energy Saving Function

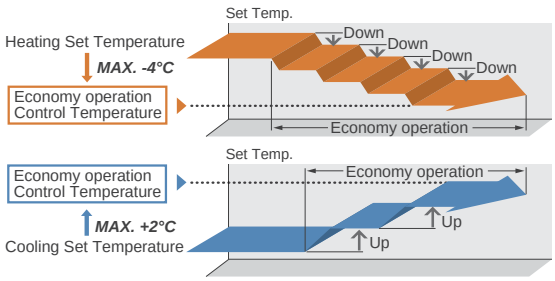
Room temperature set point limitation

The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.



Economy operation

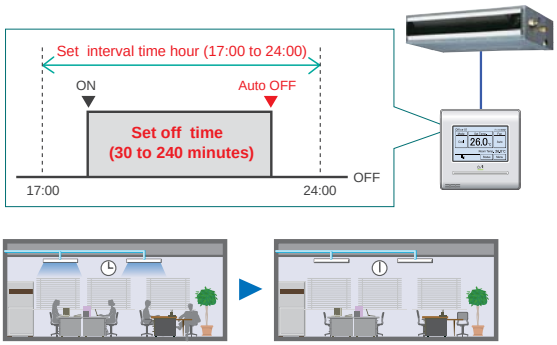
Economy operation can be set by remote controller.
The temperature setting is offset automatically over a certain period of time.



Auto-off timer

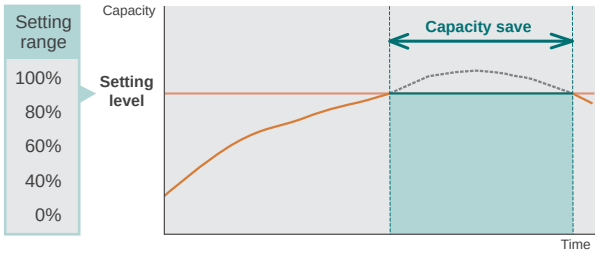
•The indoor unit automatically is turned off when it reaches to the preset operating time frame.

•The time frame of the "Auto off timer" can be flexibly scheduled.



Capacity save operation

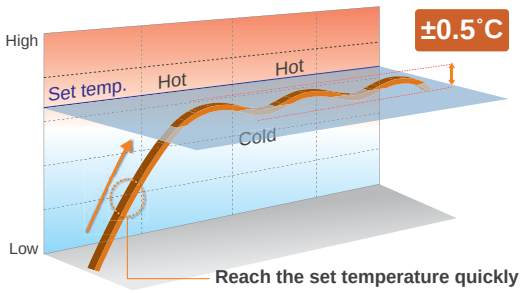
Operation capacity can be set in 5 steps for rated capability.
The power consumption at peak is cut down and the maximum load is suppressed.



More Comfort

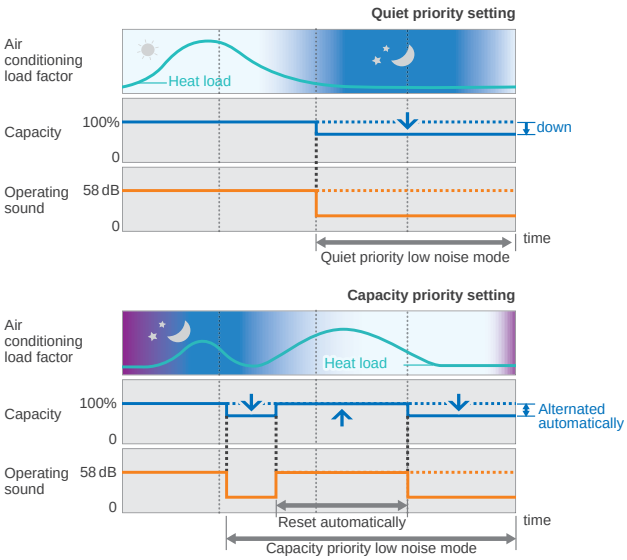
Precision refrigerant flow control

Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of ±0.5°C.



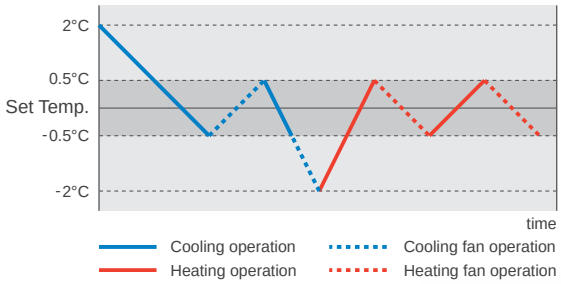
Quiet operation

Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.

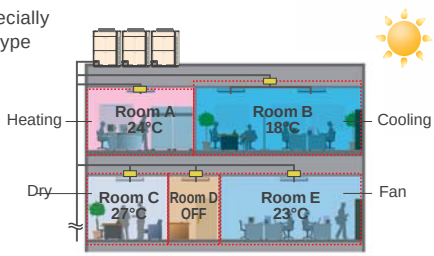


Auto changeover function

At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.



Suitable for especially Heat Recovery type



Design Flexibility

High capacity connection

4HP-6HP

AIRSTAGE™ J-IIS series Heat Pump type

Connectable indoor unit capacity range
*50% to 130%*1*

Connectable indoor unit number
up to 8

8HP-48HP

AIRSTAGE™ V-II series Heat Pump type

Connectable indoor unit capacity range
*50% to 150%*1*

Connectable indoor unit number
up to 48

AIRSTAGE™ VR-II series Heat Recovery type

Connectable indoor unit capacity range
*50% to 150%*1*

Connectable indoor unit number
up to 64

4HP-6HP

AIRSTAGE™ J-II series Heat Pump type

Connectable indoor unit capacity range
*50%*2 to 130%*1*

Connectable indoor unit number
up to 9

*1. Conditions of maximum connectable indoor unit capacity ratio is as the chart below.
*2. Only 4HP is 46%

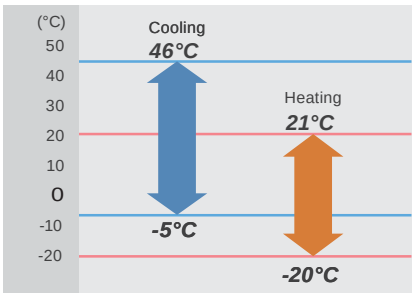
Outdoor unit capacity	Maximum connectable indoor unit capacity ratio	
	Without 1.1 kW models	With 1.1 kW models*3
8HP-48HP	*150%*	*130%*
4HP-6HP	*130%*	*120%*

*3. In the case of connectable indoor units, 1.1 kW models and Cassette and/or Duct type of 9.0 kW class or more, maximum connectable indoor unit capacity ratio is 110%.

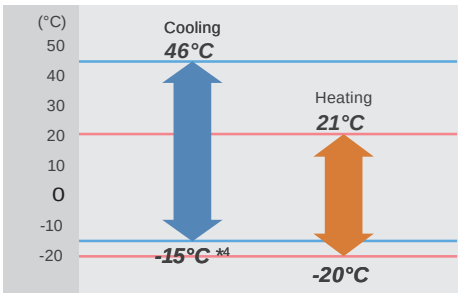
Wide operating range

Installation in extreme temperature conditions is possible due to an increase in operational range.

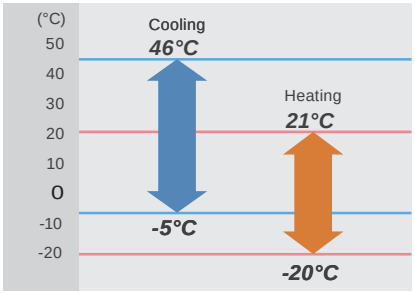
AIRSTAGE™ J-IIS series Heat Pump type



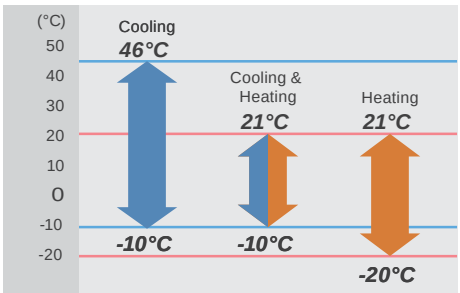
AIRSTAGE™ V-II series Heat Pump type



AIRSTAGE™ J-II series Heat Pump type



AIRSTAGE™ VR-II series Heat Recovery type

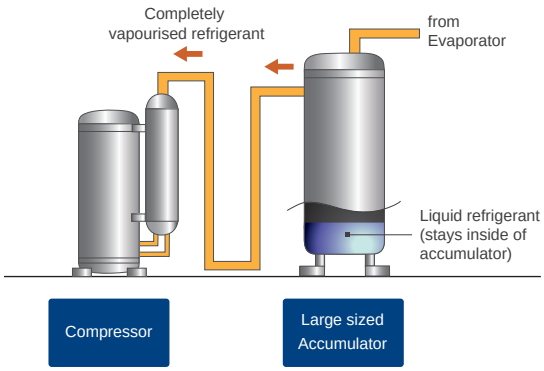


*4. Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

High Reliability

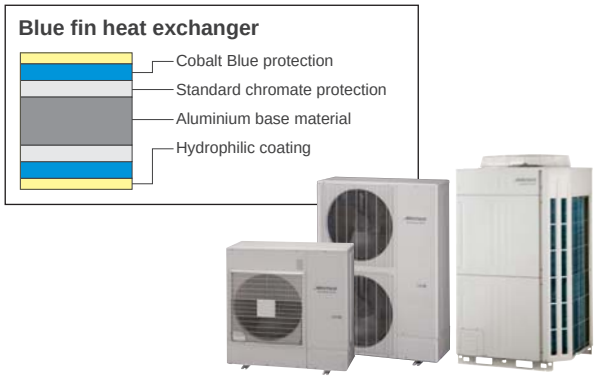
Liquid flow back protection

By adopting a large sized accumulator, not completely vapourised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.



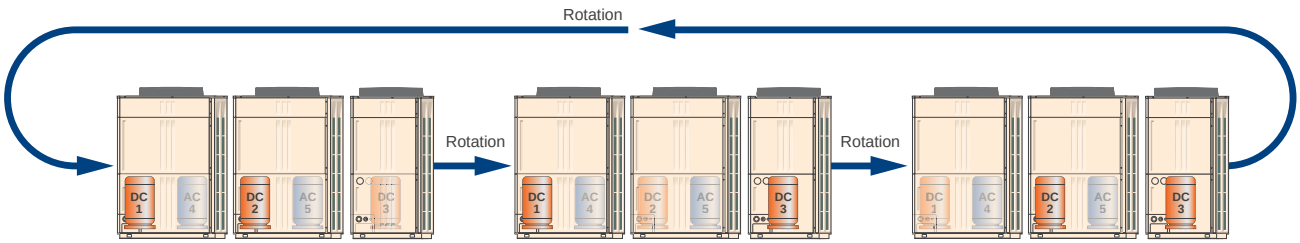
Adoption of blue fin heat exchanger

Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.



Life-extending operation*5

The compressor starting order is rotated so that the running time is shared.

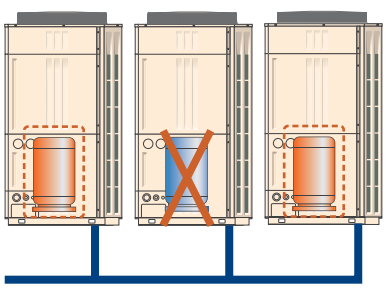


Note: The inverter compressors start in priority. Rotate operation is alternated by the start / stop timing of the compressors

Backup operation*5

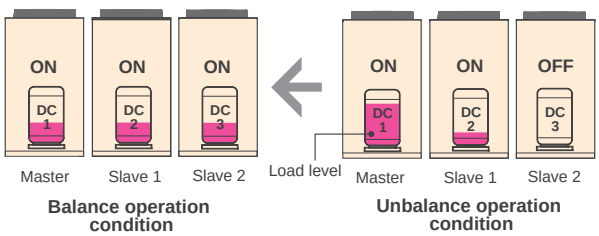
If one compressor fails, backup operation will be performed by the remaining compressors*.

*:Note: Backup operation may not be possible depending on the trouble state.



Advanced refrigerant control*5

Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.



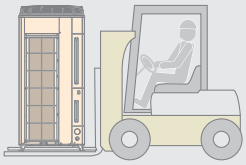
*5. Not available for AIRSTAGE™ J-IIS and J-II series

Easy Installation

Easily transported

Easily craned using lifting belt hooks
Design of outdoor unit allows for lifting straps to be used

Transporting by forklift
Transport with forklift is possible.

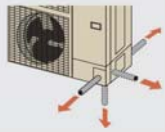


Can be transported in a small elevator

Easy access

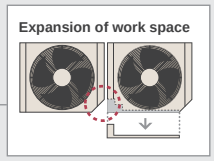
Reduced installation intervals by front access

Flexible installation by 4 way pipe direction



By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design.

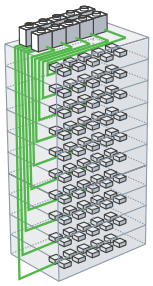
For multiple installations, work is performed easily and efficiently even in a narrow space.



Simple wiring work

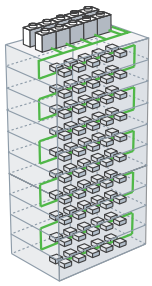
Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

Note: Serial connection can't use the automatic address setting in a multiple refrigerant system.



Parallel connection

or



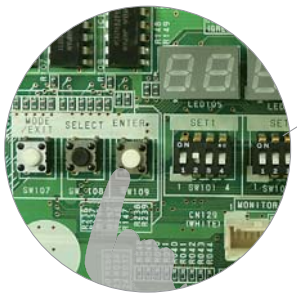
Serial connection

Up to maximum length 3,600 m

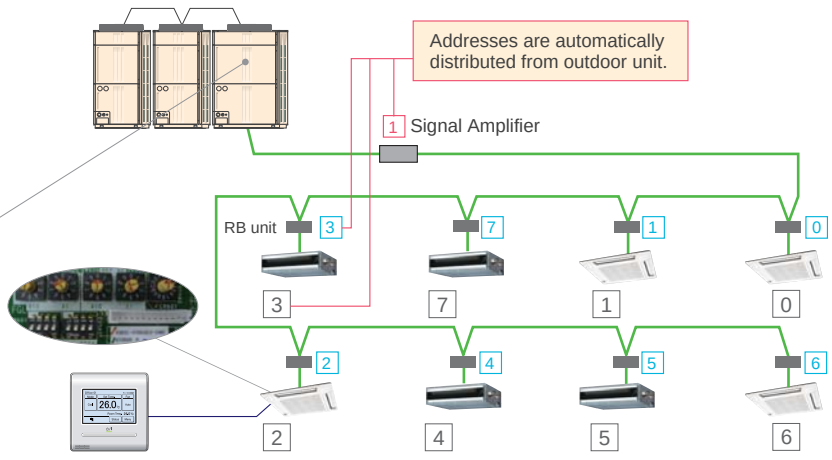
Automatic address setting

The address of the indoor unit, RB unit and signal amplifier through the automatic function setting on the outdoor unit PCB.

Automatic address setting is performed at outdoor unit



Press the push button switch of outdoor unit.



Manual address setting from indoor unit and remote controller is also possible.

Easy Service & Maintenance

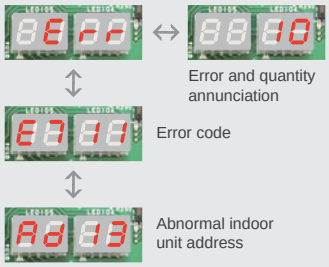
Design for easy maintenance

Movable PCB panel
Easier for maintenance work behind the PCB

Easy to read 7-segment LED :
Confirm detailed operational and error status without using any specific equipment.

7-segment LED

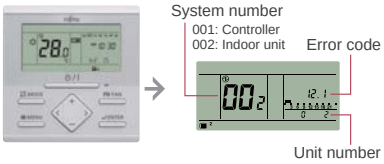
- Operation mode status
- Discharge temperature / Pressure status
- Compressor operation indication
- Address / type / number of outdoor unit



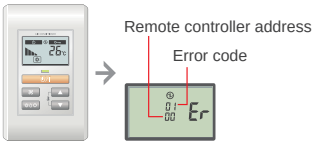
- Error status can be checked easily by outdoor unit display

Error status can be checked easily via the indoor unit wired controller
An error code is displayed on a liquid crystal screen.

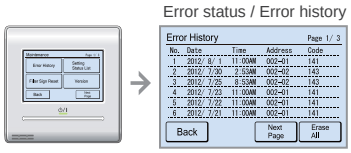
Wired Remote Controller



Simple Remote Controller



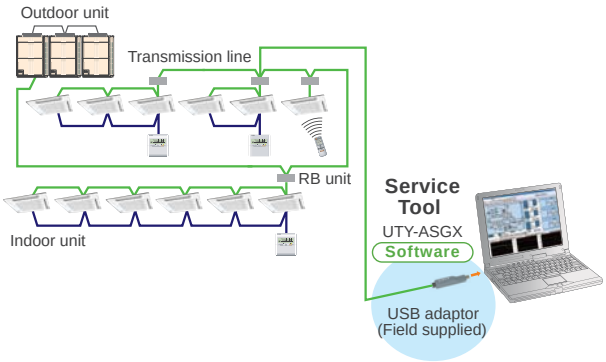
Wired Remote Controller (Touch panel)



Error diagnosis by Service Tool

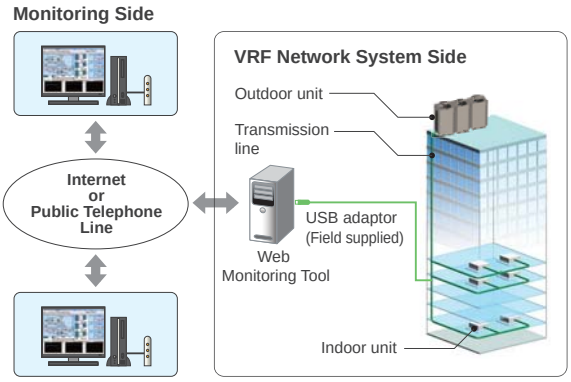
Connection to Service Tool

- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.



Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation.



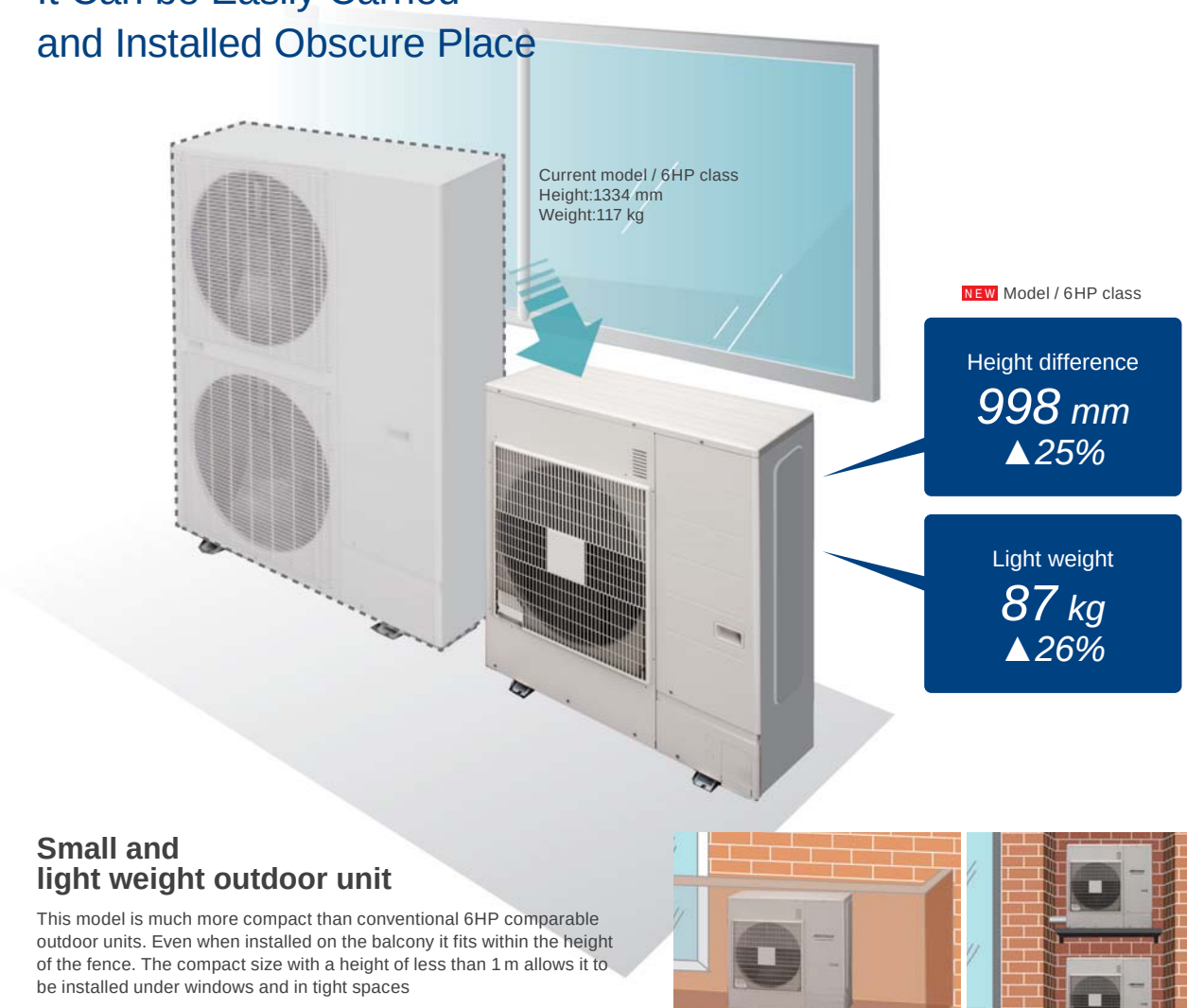
The operating VRF network system in the building can be monitored real time over the Internet.

NEW **Heat pump :** AJH040LCLAH / AJH045LCLAH / AJH054LCLAH

Fujitsu General provides air conditioning systems
for a wide range of applications
from small office buildings and stores to large houses.

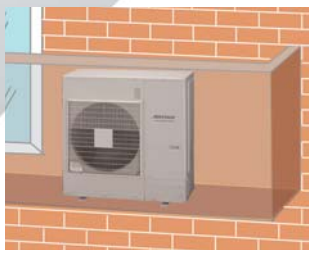
Features

It Can be Easily Carried and Installed Obscure Place



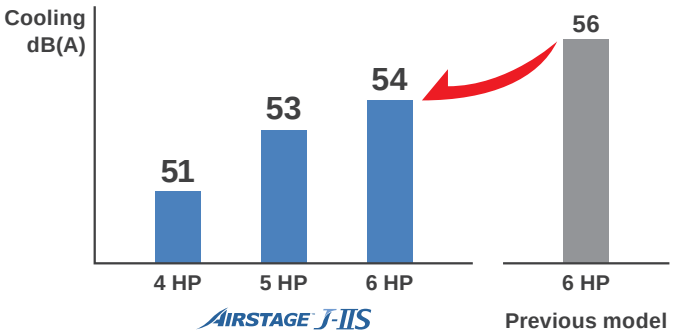
Small and light weight outdoor unit

This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces

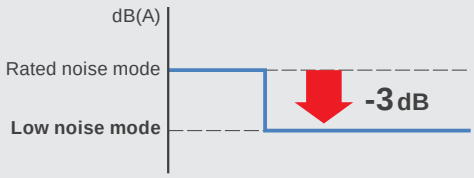


Low sound level design

Significantly low sound level is improved by using DC twin rotary compressor, inverter technology, and advanced airflow structure design.



Lower noise operation is possible by low noise mode than rated noise level.



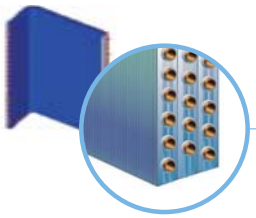
Advanced high efficiency technology

Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.

DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.



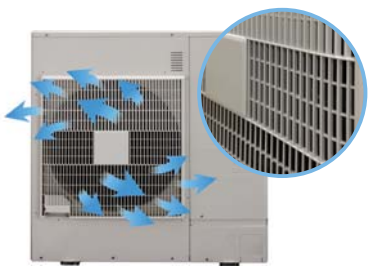
Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.

High heat transfer copper tube (Improved lead angle)

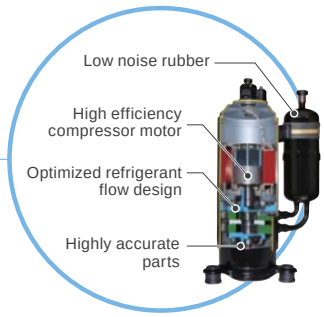
Smooth airflow grille

This grille was aerodynamically designed for good efficiency with little blow loss.



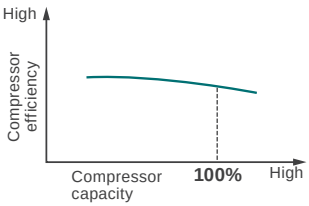
DC inverter control

Efficiency is improved by mounting of new active filter module.



Compact and high performance DC twin rotary compressor

Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

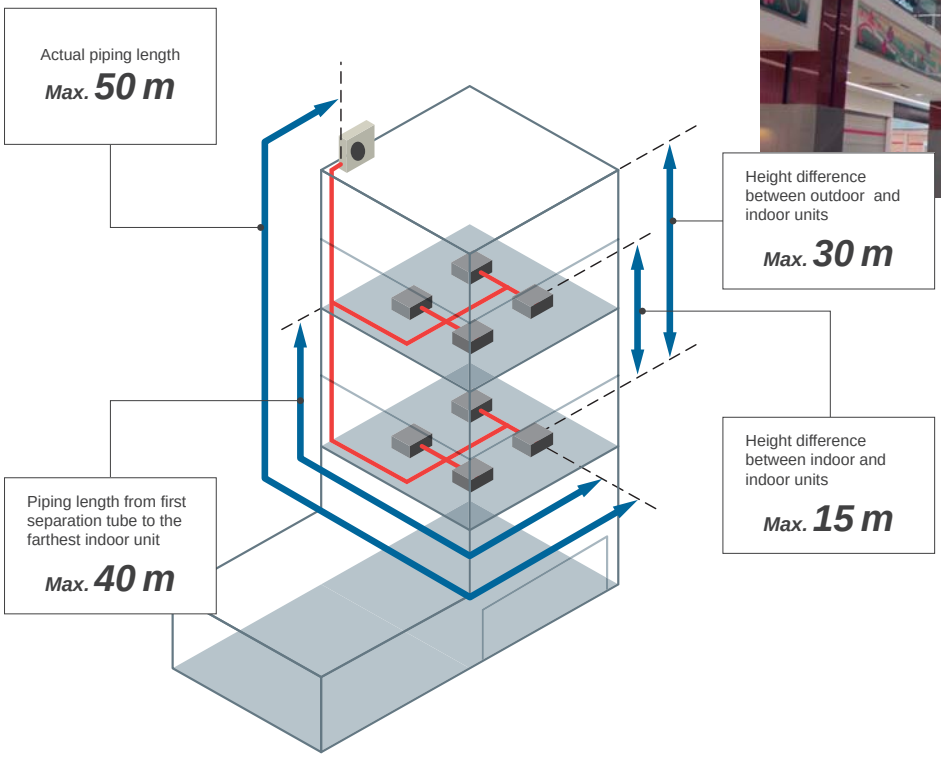


Features

Long piping length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up new possibilities in system design.

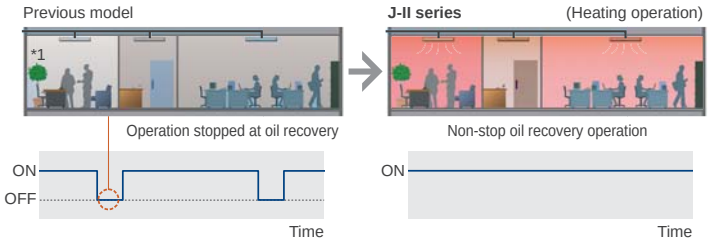
Total pipe length
Max. 80 m


Actual piping length
Max. 50 m
Height difference between outdoor and indoor units
Max. 30 m
Height difference between indoor and indoor units
Max. 15 m
Piping length from first separation tube to the farthest indoor unit
Max. 40 m

More Comfort

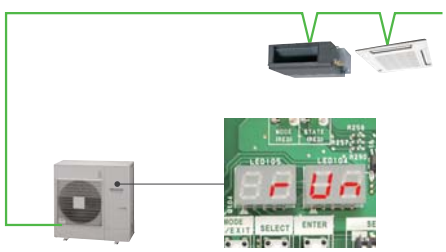
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Easier Installation

Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

Specifications

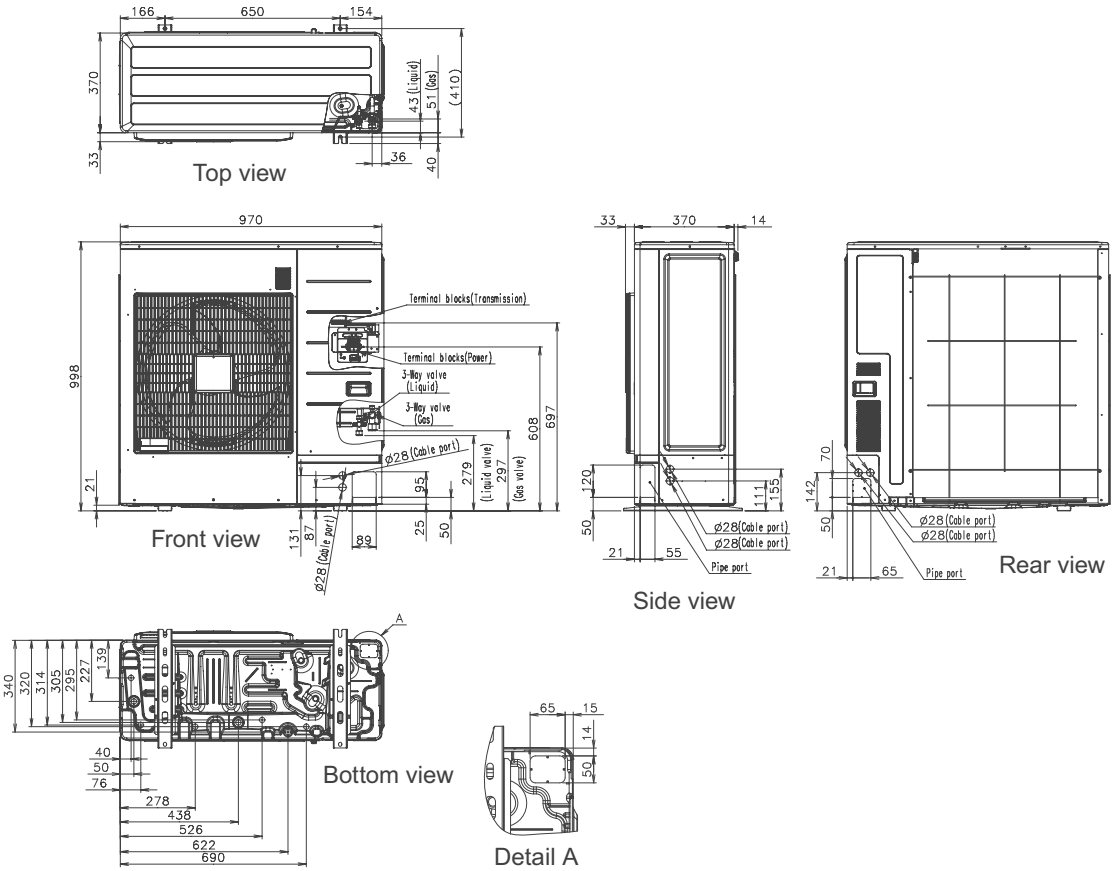
Rating capacity range	HP		4	5	6
Model name			AJH040LCLAH	AJH045LCLAH	AJH054LCLAH
Maximum connectable indoor unit			7	8	8
Power source	V/Ø/Hz		230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	12.1	14.0	15.1
	Heating		13.6	16.0	16.5
Input power	Cooling	kW	3.44	4.43	5.32
	Heating		3.09	3.93	4.26
EER	Cooling	W/W	3.52	3.16	2.84
COP	Heating		4.40	4.07	3.87
Airflow rate		m^3/h	4,040	4,200	4,200
Sound Pressure level	Cooling	dB (A)	51	53	54
	Heating		54	55	56
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	998	998	998
	Width	mm	970	970	970
	Depth	mm	370	370	370
Weight	kg		86	86	87
Connection Pipe diameter	Liquid	mm	ø9.52	ø9.52	ø9.52
	Gas		ø15.88	ø15.88	ø15.88
Total pipe length		m	80	80	80
Max. Height difference			30	30	30
Operation Range	Cooling	˚C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
The protective function may work when using it outside the operation range.

Dimensions

(Unit : mm)

Model : AJH040LCLAH / AJH045LCLAH / AJH054LCLAH



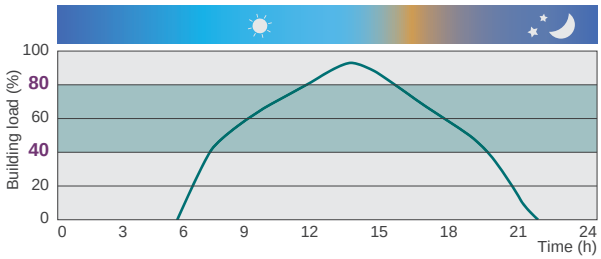
Heat pump : AJHA40LALH / AJHA45LALH / AJHA54LALH

Fujitsu General provides air conditioning systems
for a wide range of applications
from small office buildings and stores to large houses.

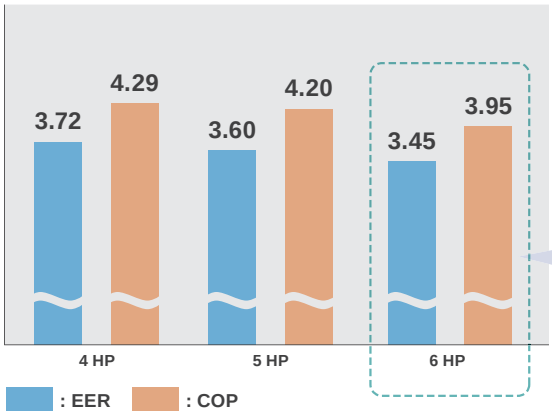
Features

The building load is in the range of 40 % to 80 %. Therefore, most air conditioners do not operate at maximum load, but operate at low to medium loads. Especially, for multi system, operation performance at partial load is important because air conditioners do not always operate at full load all the time. Aiming at energy saving performance matched to actual operation, Fujitsu General has developed a high performance air conditioner corresponding not only during the rated performance at 100 % load, but also at low to medium load

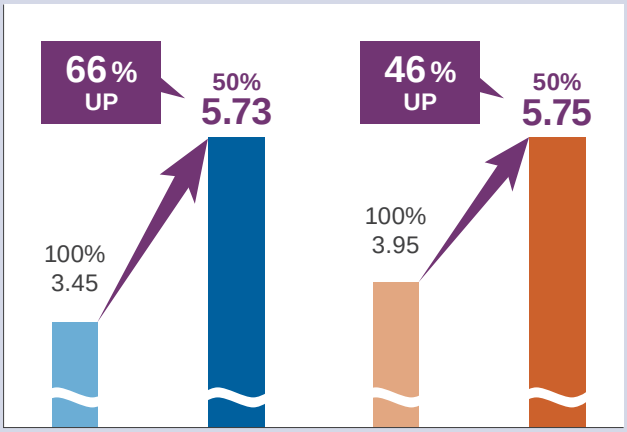
Load curve (a typical office building)



High EER / COP



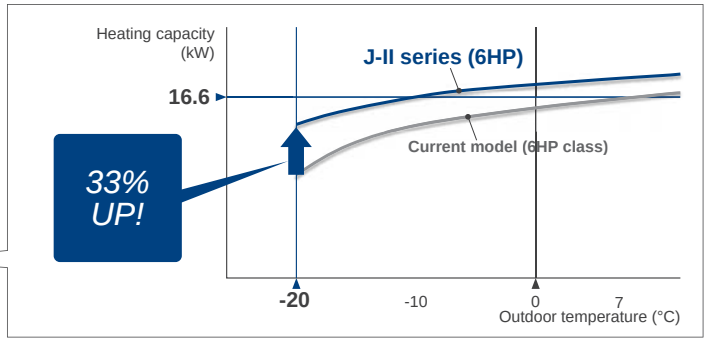
High part load performance (6HP class)



Conditions : Connected indoor units: AUXA30GALH+AUXD24GALH
Cooling : indoor temp. of 27°CDB / 19°CWB, outdoor temp. of 35°CDB / 24°CWB
Heating : indoor temp. of 20°CDB / 15°CWB, outdoor temp. of 7°CDB / 6°CWB

Powerful Heating

Heating capacity is improved at low outdoor temperature by our advanced technology.



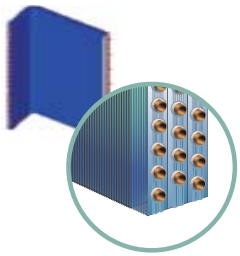
Advanced high efficiency technology

Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.

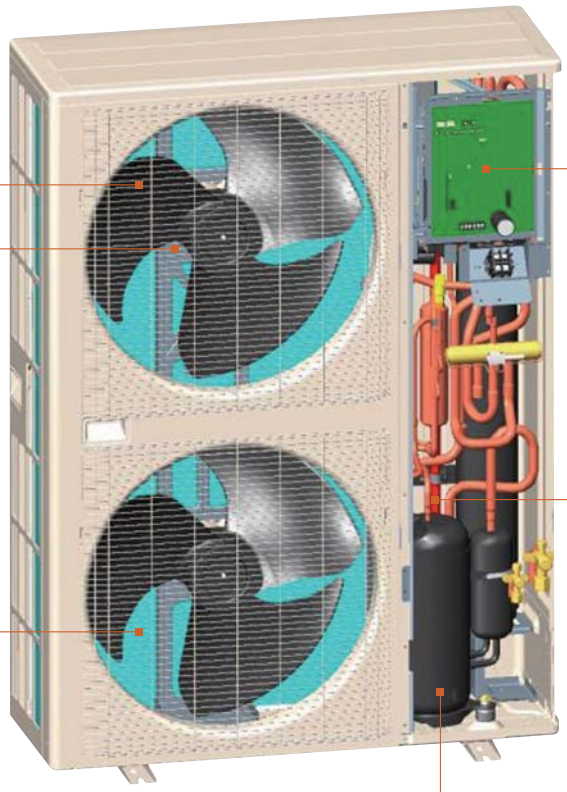
DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.



Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.

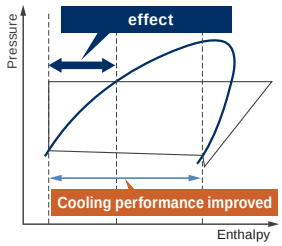


DC inverter control

Efficiency is improved by mounting of new active filter module.

Subcool heat exchanger

Cooling performance is improved by mounting of dual tube heat exchanger.



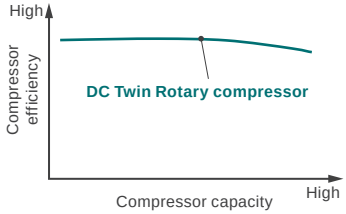
High efficiency compressor motor

Optimized refrigerant flow design

Highly accurate parts

DC twin rotary compressor

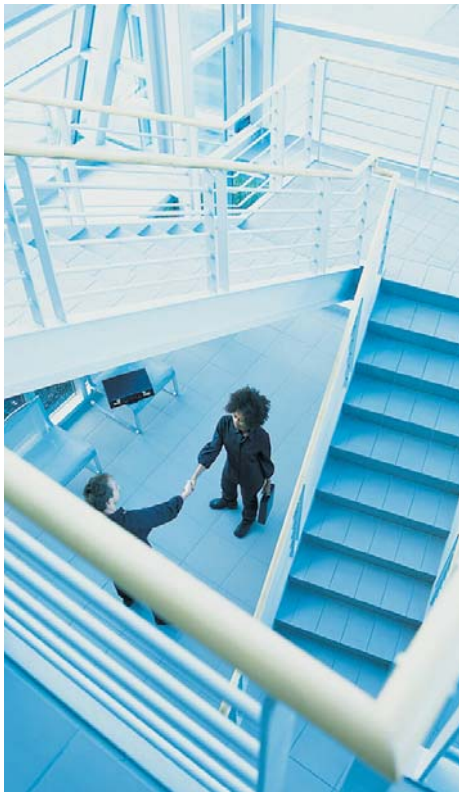
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

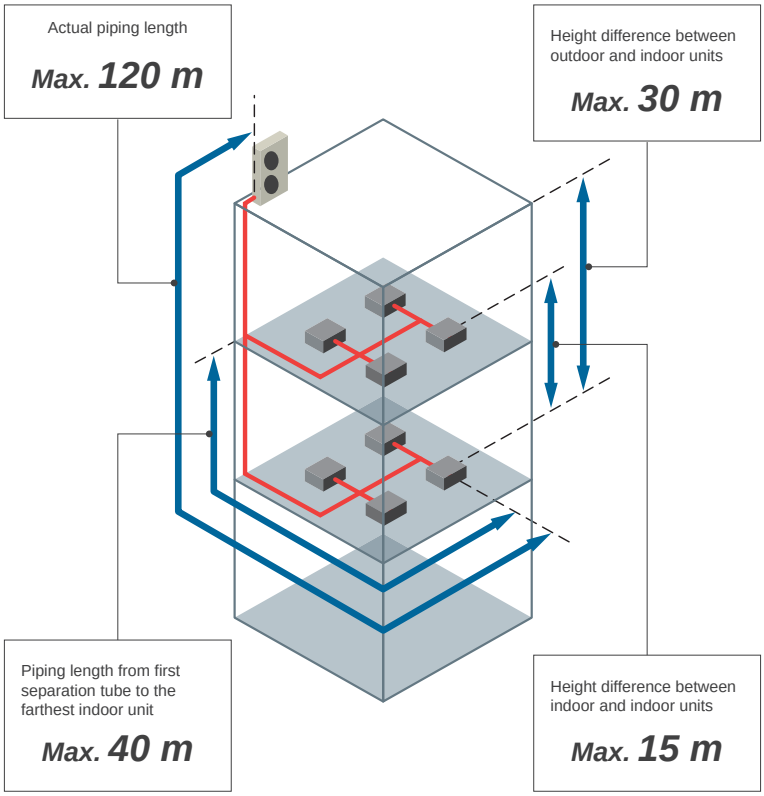


Long Piping Length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.

Total pipe length
Max. 180 m

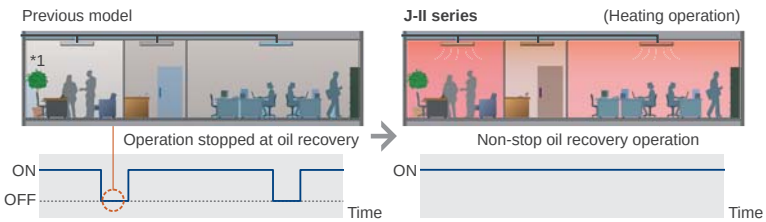



Actual piping length
Max. 120 m
Height difference between outdoor and indoor units
Max. 30 m
Piping length from first separation tube to the farthest indoor unit
Max. 40 m
Height difference between indoor and indoor units
Max. 15 m

More Comfort

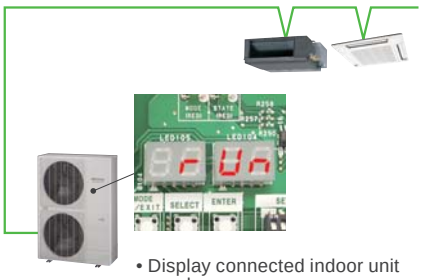
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Easier Installation

Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

Specifications

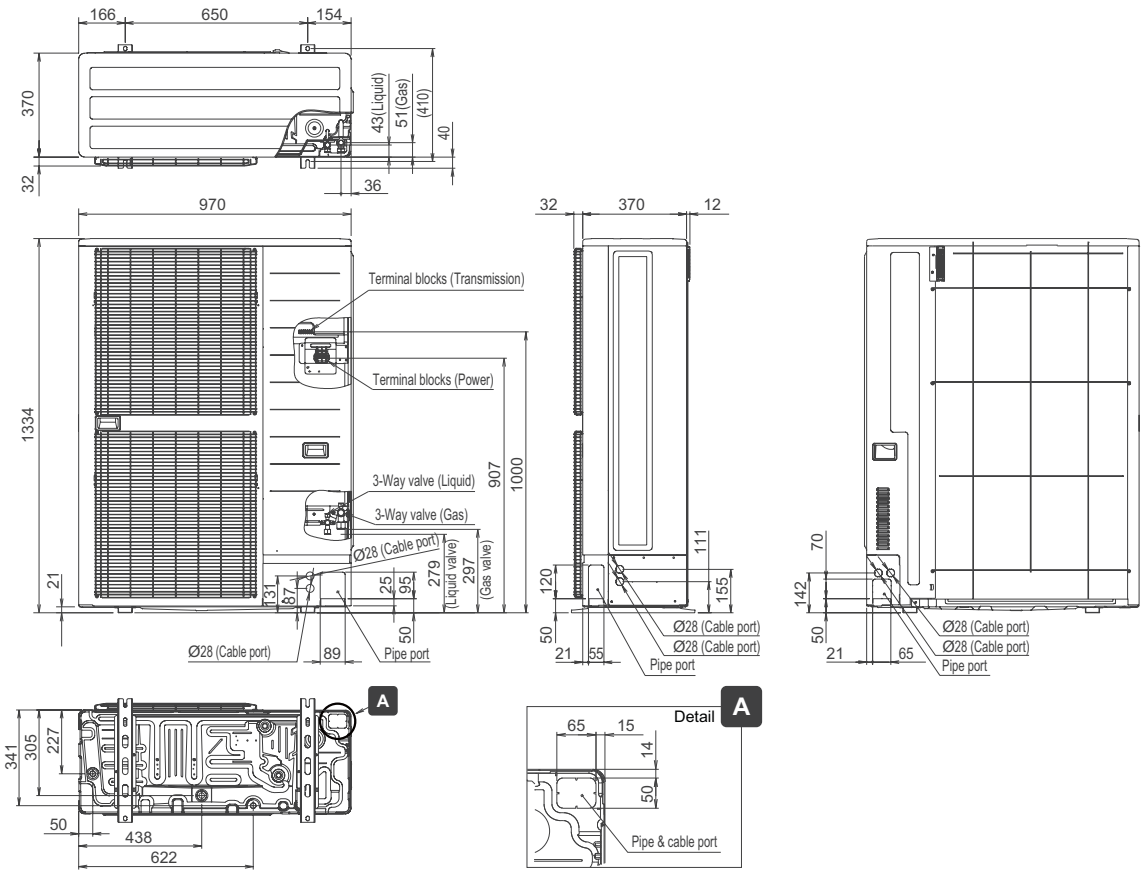
Rating Capacity range	HP		4	5	6
Model name			AJHA40LALH	AJHA45LALH	AJHA54LALH
Maximum Connectable Indoor Unit			7	8	9
Power source	V/Ø/Hz		230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	12.1	14.0	15.5
	Heating		13.6	16.0	18.0
Input power	Cooling	kW	3.25	3.89	4.49
	Heating		3.17	3.81	4.56
EER	Cooling	W/W	3.72	3.60	3.45
COP	Heating		4.29	4.20	3.95
Air flow rate		m^3/h	6,200	6,400	6,900
Sound pressure level	Cooling	dB (A)	50	51	53
	Heating		52	53	55
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,334	1,334	1,334
	Width	mm	970	970	970
	Depth	mm	370	370	370
Weight	kg		117	117	117
Refrigerant charge	kg		4.8	5.3	5.3
Connection pipe diameter	Liquid	mm	ø9.52	ø9.52	ø9.52
	Gas		ø15.88	ø15.88	ø19.05
Operation range	Cooling	˚C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
The protective function may work when using it outside the operation range.

Dimensions

(Unit : mm)

Model : AJHA40LALH / AJHA45LALH / AJHA54LALH



Heat pump

Smart and cutting edge design
Extensive lineup from 8HP to 48HP in 2HP increment
Connectable indoor unit capacity ratio up to 150%

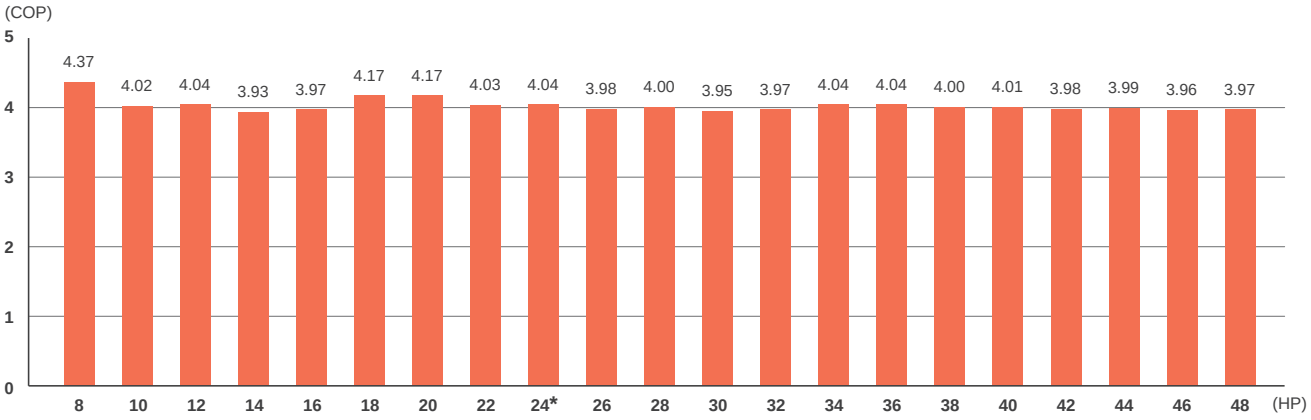
8, 10, 12HP　　14, 16HP

Features

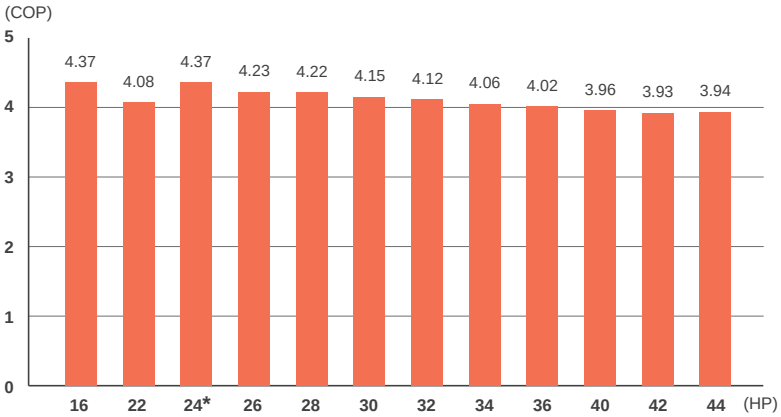
Efficiency in actual operation

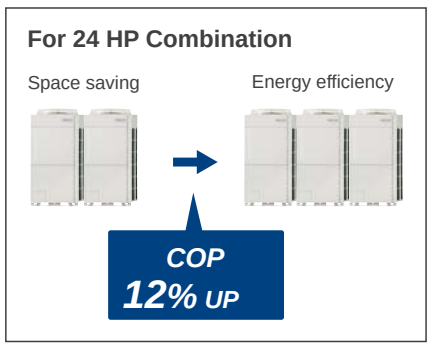
Top class high COP is realized for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and other our own technologies.

Space saving combination



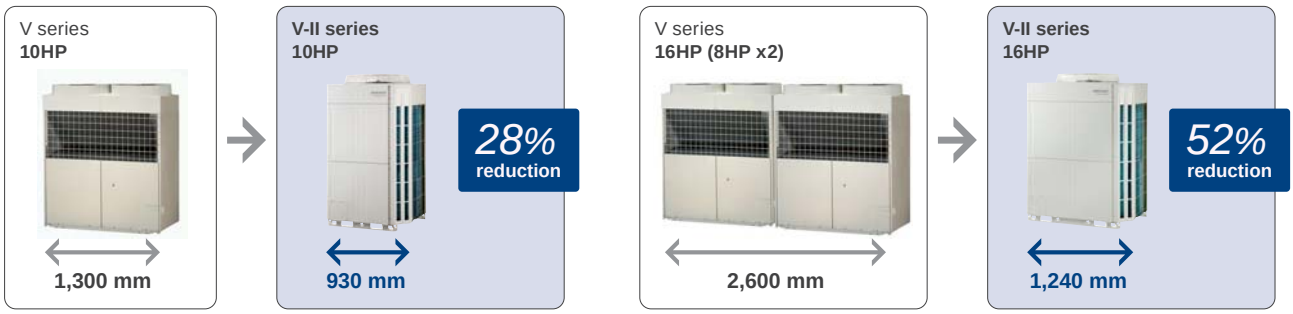
Energy efficiency combination





Space saving and compact size

Compact size has been achieved by significantly reducing the width of the outdoor units compared to previous models.



Energy saving technology that boosted operation efficiency

Powerful large propeller fan

By using CFD*1 technology, A newly designed fan achieves high performance and low noise operation.

*1. CFD = Computational Fluid Dynamics

DC fan motor

Power consumption has been reduced by 25% compared to previous models by using a compact and high performance DC fan motor.

Subcool heat exchanger

High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.

Sine-wave DC inverter control

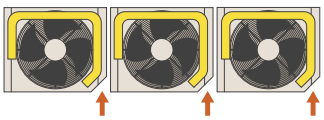
High efficiency operation is realized by using a sine wave DC inverter control.

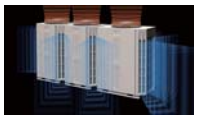
DC twin rotary compressor

Significantly greater efficiency is realized by use of a large capacity DC twin rotary compressor with substantially increased refrigerant intake and compression efficiency.

4-face heat exchanger

Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.





Front intake port

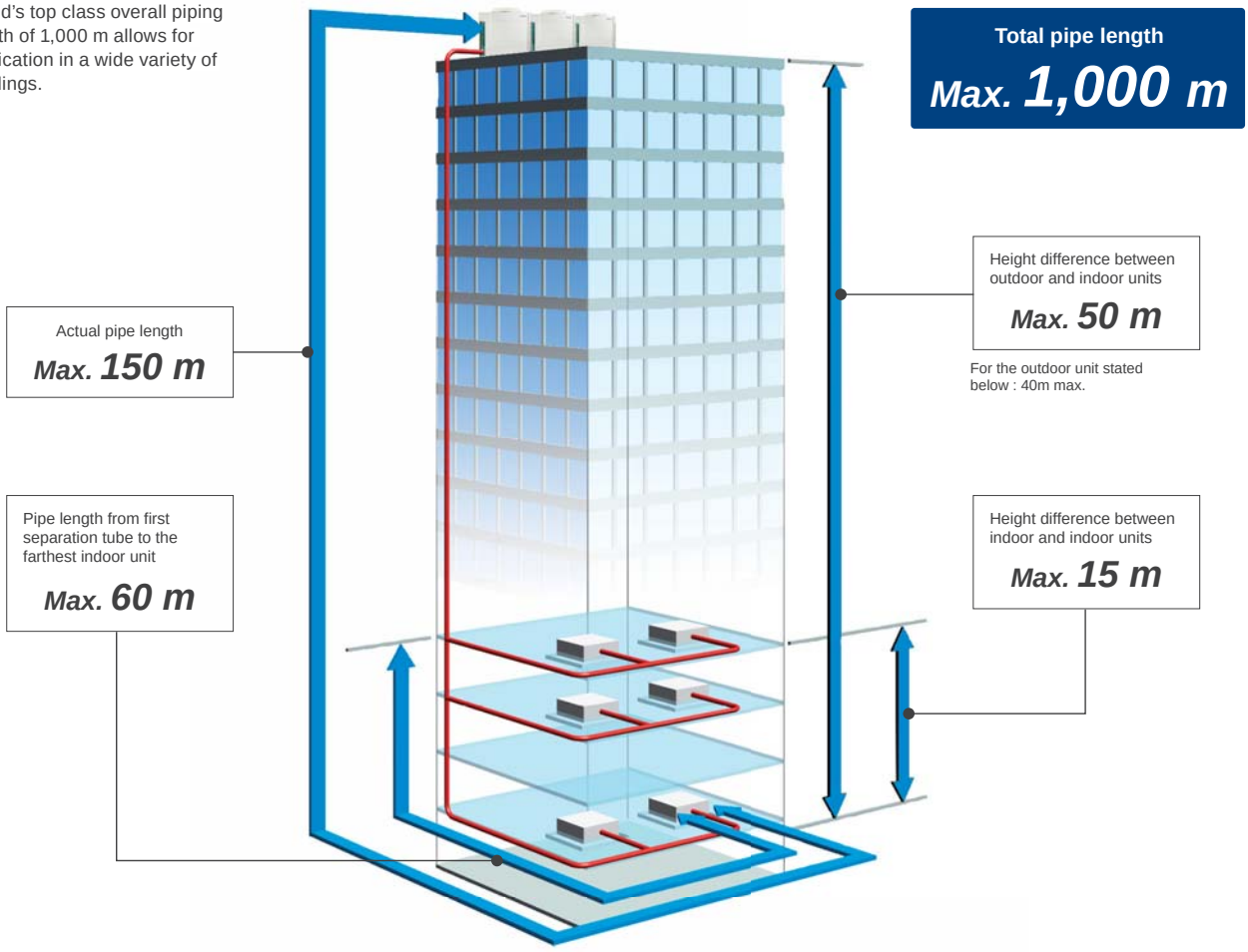
(corner cut air inhaling structure)

In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.

Design Flexibility

Overall piping length 1,000 m

World's top class overall piping length of 1,000 m allows for application in a wide variety of buildings.


Total pipe length
Max. 1,000 m
Height difference between outdoor and indoor units
Max. 50 m
For the outdoor unit stated below : 40m max.
Actual pipe length
Max. 150 m
Pipe length from first separation tube to the farthest indoor unit
Max. 60 m
Height difference between indoor and indoor units
Max. 15 m

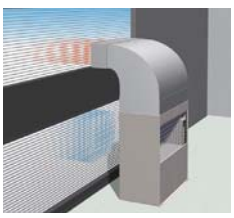
High static pressure of 80 Pa

The outdoor unit can have a condenser hood easily connected with a static pressure of 80Pa standard. This allows outdoor units to be installed within plant rooms in high rise buildings.

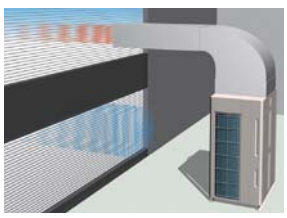
Powerful discharge with an external static pressure of 80 Pa.

80 Pa as standard

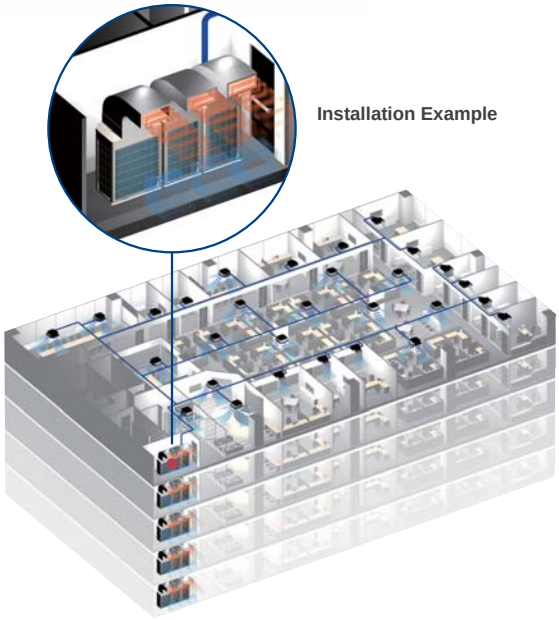
Previous model



V-II series



Large diameter fan and DC motor has been utilized allowing an external static pressure of 80 Pa. This is approximately 2.6 times greater than the previous model.



Installation Example

More Comfort

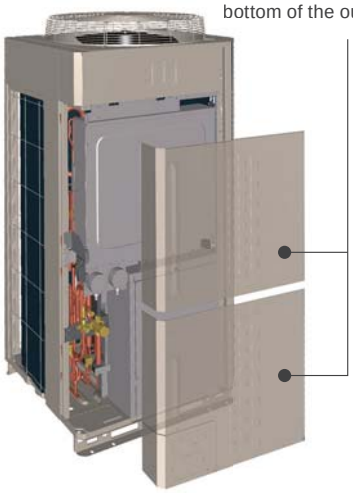
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.

Easy Service & Maintenance

Maintenance of electrical components, valves, and compressor parts from the front is possible.

Split front panel
Split front panel allows for maintenance from top or bottom of the outdoor unit

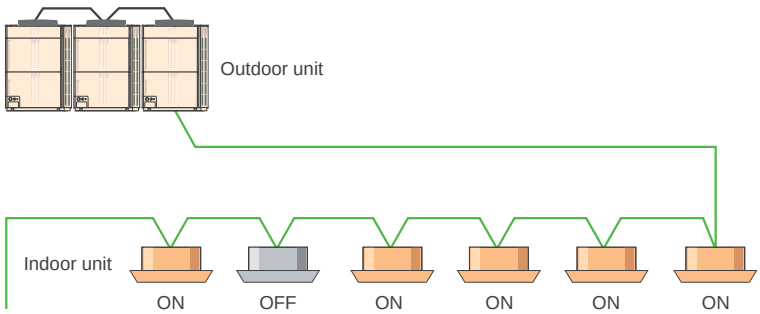


Continuous operation during maintenance

Non-stop operation

When servicing a specific indoor unit, maintenance can be performed even without turning off the other indoor units.

*Note: VR-II Series and J-II Series are not available.



Outdoor units lineup

•Combinations other than the followings are not recommended.

Space saving combination

22.4 kW (8HP) AJHA72LALH UNIT : AJHA72LALH	28.0 kW (10HP) AJHA90LALH UNIT : AJHA90LALH	33.5 kW (12HP) AJH108LALH UNIT : AJH108LALH	40.0 kW (14HP) AJH126LALH UNIT : AJH126LALH	45.0 kW (16HP) AJH144LALH UNIT : AJH144LALH
50.4 kW (18HP) AJH162LALH UNIT : AJHA90/A72LALH	55.9 kW (20HP) AJH180LALH UNIT : AJH108/A72LALH	61.5 kW (22HP) AJH198LALH UNIT : AJH108/A90LALH	67.0 kW (24HP) AJH216LALH UNIT : AJH108/108LALH	73.5 kW (26HP) AJH234LALH UNIT : AJH126/108LALH
78.5 kW (28HP) AJH252LALH UNIT : AJH144/108LALH	85.0 kW (30HP) AJH270LALH UNIT : AJH144/126LALH	90.0 kW (32HP) AJH288LALH UNIT : AJH144/144LALH	95.0 kW (34HP) AJH306LALH UNIT : AJH108/108/A90LALH	100.5 kW (36HP) AJH324LALH UNIT : AJH108/108/108LALH
107.0 kW (38HP) AJH342LALH UNIT : AJH126/108/108LALH	112.0 kW (40HP) AJH360LALH UNIT : AJH144/108/108LALH	118.5 kW (42HP) AJH378LALH UNIT : AJH144/126/108LALH	123.5 kW (44HP) AJH396LALH UNIT : AJH144/144/108LALH	130.0 kW (46HP) AJH414LALH UNIT : AJH144/144/126LALH
135.0 kW (48HP) AJH432LALH UNIT : AJH144/144/144LALH				

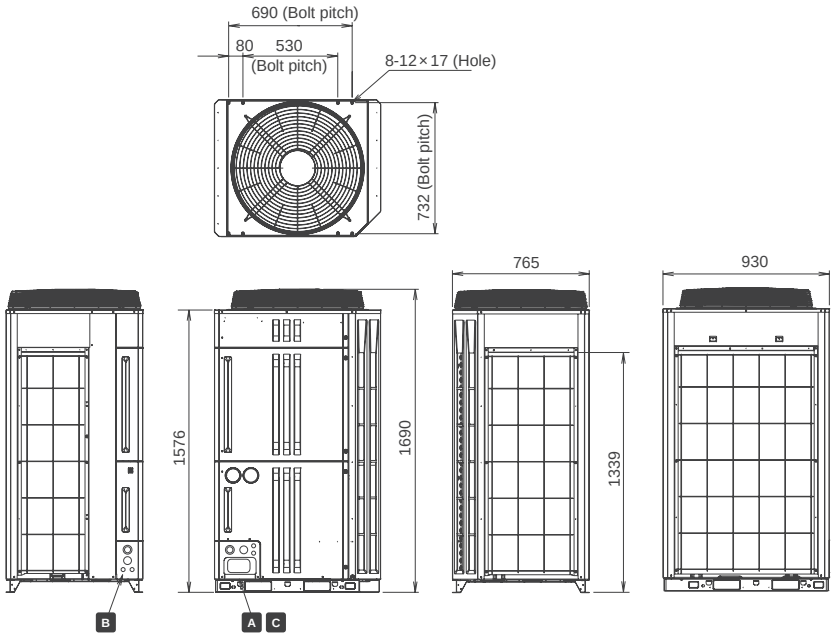
Energy efficiency combination

44.8 kW (16HP) AJH144LALHH UNIT : AJHA72/A72LALH	62.4 kW (22HP) AJH198LALHH UNIT : AJH126/A72LALH	67.2 kW (24HP) AJH216LALHH UNIT : AJHA72/A72/A72LALH	72.8 kW (26HP) AJH234LALHH UNIT : AJHA90/A72/A72LALH	78.3 kW (28HP) AJH252LALHH UNIT : AJH108/A72/A72LALH
84.8 kW (30HP) AJH270LALHH UNIT : AJH126/A72/A72LALH	89.8 kW (32HP) AJH288LALHH UNIT : AJH108/108/A72LALH	95.9 kW (34HP) AJH306LALHH UNIT : AJH126/108/A72LALH	102.4 kW (36HP) AJH324LALHH UNIT : AJH126/126/A72LALH	113.5 kW (40HP) AJH360LALHH UNIT : AJH126/126/108LALH
120.0 kW (42HP) AJH378LALHH UNIT : AJH126/126/126LALH	125.0 kW (44HP) AJH396LALHH UNIT : AJH144/126/126LALH			

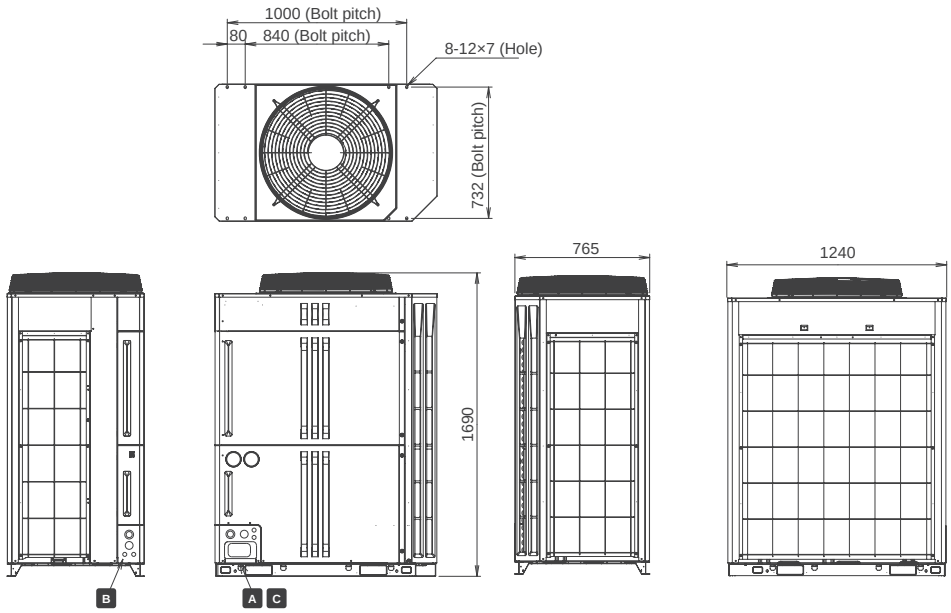
Dimensions

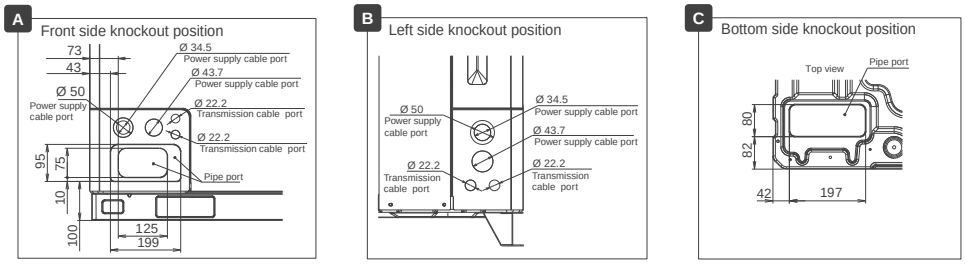
(Unit : mm)

8,10,12HP : AJHA72LALH / AJHA90LALH / AJH108LALH



14,16HP : AJH126LALH / AJH144LALH





Outdoor units specifications

Space Saving Combination

Rating Capacity range	HP		8	10	12	14	16	18	20	22	24
Model name			AJHA72LALH	AJHA90LALH	AJH108LALH	AJH126LALH	AJH144LALH	AJH162LALH	AJH180LALH	AJH198LALH	AJH216LALH
Unit 1 Unit 2 Unit 3			AJHA72LALH	AJHA90LALH	AJH108LALH	AJH126LALH	AJH144LALH	AJHA90LALH AJHA72LALH	AJH108LALH AJHA72LALH	AJH108LALH AJHA90LALH	AJH108LALH AJH108LALH
Maximum Connectable Indoor Unit*1			15	16	17	21	24	32	32	32	35
Indoor unit connectable capacity	Cooling	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.2-75.6	28.0-83.8	30.8-92.2	33.5-100.5
Power source			3-phase 4 wire, 400 V, 50Hz								
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0
	Heating		25.0	31.5	37.5	45.0	50.0	56.5	62.5	69.0	75.0
Input power	Cooling	kW	5.51	7.73	9.62	11.53	14.17	13.24	15.13	17.35	19.24
	Heating		5.72	7.83	9.28	11.45	12.60	13.55	15.00	17.11	18.56
EER	Cooling	W/W	4.07	3.62	3.48	3.47	3.18	3.81	3.69	3.54	3.48
COP	Heating		4.37	4.02	4.04	3.93	3.97	4.17	4.17	4.03	4.04
Air flow rate	High	m³/h	11,100	11,100	11,100	13,000	13,000	11,100 x 2	11,100 x 2	11,100 x 2	11,100 x 2
Sound pressure level*2	Cooling	dB (A)	56	58	58	60	61	60	60	61	61
	Heating		58	59	60	61	61	62	62	63	63
Maximum external static pressure	Pa		80	80	80	80	80	80	80	80	80
Compressor motor output	kW		3.9	3.9	3.9 + 4.5	3.9 + 4.5	3.9 + 4.5	3.9 x 2	3.9 x 2 + 4.5	3.9 x 2 + 4.5	3.9 x 2 + 4.5 x 2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width	mm	930	930	930	1,240	1,240	930 x 2	930 x 2	930 x 2	930 x 2
	Depth	mm	765	765	765	765	765	765	765	765	765
Weight	kg		220	220	275	303	303	220 + 220	275 + 220	275 + 220	275 + 275
Refrigerant charge	kg		11.2	11.2	11.8	11.8	11.8	11.2 x 2	11.8 + 11.2	11.8 + 11.2	11.8 x 2
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operation range	Cooling	˚C	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combination

Rating Capacity range	HP		16	22	24	26	28	30
Model name			AJH144LALHH	AJH198LALHH	AJH216LALHH	AJH234LALHH	AJH252LALHH	AJH270LALHH
Unit 1 Unit 2 Unit 3			AJHA72LALH AJHA72LALH	AJH126LALH AJHA72LALH	AJHA72LALH AJHA72LALH AJHA72LALH	AJHA90LALH AJHA72LALH AJHA72LALH	AJH108LALH AJHA72LALH AJHA72LALH	AJH126LALH AJHA72LALH AJHA72LALH
Maximum Connectable Indoor Unit*1			30	33	36	39	42	45
Indoor unit connectable capacity	Cooling	kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source			3-phase 4 wire, 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.3	84.8
	Heating		50.0	70.0	75.0	81.5	87.5	95.0
Input power	Cooling	kW	11.02	17.04	16.53	18.75	20.64	22.55
	Heating		11.44	17.17	17.16	19.27	20.72	22.89
EER	Cooling	W/W	4.07	3.66	4.07	3.88	3.79	3.76
COP	Heating		4.37	4.08	4.37	4.23	4.22	4.15
Air flow rate	High	m³/h	11,100 x 2	13,000 + 11,100	11,100 x 3	11,100 x 3	11,100 x 3	13,000 + 11,000 x 2
Sound pressure level*2	Cooling	dB (A)	59	61	61	62	62	63
	Heating		59	62	61	62	63	63
Maximum external static pressure	Pa		80	80	80	80	80	80
Compressor motor output	kW		3.9 x 2	3.9 x 2 + 4.5	3.9 x 3	3.9 x 3	3.9 x 3 + 4.5	3.9 x 3 + 4.5
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width	mm	930 x 2	930 + 1,240	930 x 3	930 x 3	930 x 3	930 x 2 + 1,240
	Depth	mm	765	765	765	765	765	765
Weight	kg		220 + 220	303 + 220	220 + 220 + 220	220 + 220 + 220	275 + 220 + 220	303 + 220 + 220
Refrigerant charge	kg		11.2 x 2	11.8 + 11.2	11.2 x 3	11.2 x 3	11.8 + 11.2 x 2	11.8 + 11.2 x 2
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
	Gas		28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	˚C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

26	28	30	32	34	36	38	40	42	44	46	48
AJH234LALH	**AJH252LALH**	**AJH270LALH**	**AJH288LALH**	**AJH306LALH**	**AJH324LALH**	**AJH342LALH**	**AJH360LALH**	**AJH378LALH**	**AJH396LALH**	**AJH414LALH**	**AJH432LALH**
AJH126LALH AJH108LALH	AJH144LALH AJH108LALH	AJH144LALH AJH126LALH	AJH144LALH AJH144LALH	AJH108LALH AJH108LALH AJHA90LALH	AJH108LALH AJH108LALH AJH108LALH	AJH126LALH AJH108LALH AJH108LALH	AJH144LALH AJH108LALH AJH108LALH	AJH144LALH AJH126LALH AJH108LALH	AJH144LALH AJH144LALH AJH108LALH	AJH144LALH AJH144LALH AJH126LALH	AJH144LALH AJH144LALH AJH144LALH
39	42	45	48	48	48	48	48	48	48	48	48
36.8-110.2	39.3-117.7	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.7	53.5-160.5	56.0-168.0	59.3-177.7	61.8-185.2	65.0-195.0	67.5-202.5
3-phase 4 wire, 400 V, 50Hz											
73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0
82.5	87.5	95.0	100.0	106.5	112.5	120.0	125.0	132.5	137.5	145.0	150.0
21.15	23.79	25.70	28.34	26.97	28.86	30.77	33.41	35.32	37.96	39.87	42.51
20.73	21.88	24.05	25.20	26.39	27.84	30.01	31.16	33.33	34.48	36.65	37.80
3.48	3.30	3.31	3.18	3.52	3.48	3.48	3.35	3.36	3.25	3.26	3.18
3.98	4.00	3.95	3.97	4.04	4.04	4.00	4.01	3.98	3.99	3.96	3.97
13,000 + 11,100	13,000 + 11,100	13,000 x 2	13,000 x 2	11,100 x 3	11,100 x 3	13,000 + 11,100 × 2	13,000 + 11,100 × 2	13,000 × 2 + 11,100	13,000 × 2 + 11,100	13,000 x 3	13,000 x 3
62	63	64	64	63	63	64	64	65	65	65	66
64	64	64	64	64	65	65	65	65	65	66	66
80	80	80	80	80	80	80	80	80	80	80	80
3.9 x 2 + 4.5 x 2	3.9 x 2 + 4.5 x 2	3.9 x 2 + 4.5 x 2	3.9 x 2 + 4.5 x 2	3.9 x 3 + 4.5 x 2	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
930 + 1,240	930 + 1,240	1,240 x 2	1,240 x 2	930 x 3	930 x 3	930 x 2 + 1,240	930 x 2 + 1,240	930 + 1,240 x 2	930 + 1,240 x 2	1,240 x 3	1,240 x 3
765	765	765	765	765	765	765	765	765	765	765	765
303 + 275	303 + 275	303 + 303	296 + 296	275 + 275 + 220	275 + 275 + 275	303 + 275 + 275	303 + 275 + 275	303 + 303 + 275	303 + 303 + 275	303 + 303 + 303	303 + 303 + 303
11.8 x 2	11.8 x 2	11.8 x 2	11.8 x 2	11.8 x 2 + 11.2	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3
15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

32	34	36	40	42	44
AJH288LALHH	**AJH306LALHH**	**AJH324LALHH**	**AJH360LALHH**	**AJH378LALHH**	**AJH396LALHH**
AJH108LALH AJH108LALH AJHA72LALH	AJH126LALH AJH108LALH AJHA72LALH	AJH126LALH AJH126LALH AJHA72LALH	AJH126LALH AJH126LALH AJH108LALH	AJH126LALH AJH126LALH AJH126LALH	AJH144LALH AJH126LALH AJH126LALH
48	48	48	48	48	48
44.7-134.1	48.0-143.8	51.2-153.6	56.8-170.2	60.0-180.0	62.5-187.5
3-phase 4 wire, 400 V, 50Hz					
89.4	95.9	102.4	113.5	120.0	125.0
100.0	107.5	115.0	127.5	135.0	140.0
24.75	26.66	28.57	32.68	34.59	37.23
24.28	26.45	28.62	32.18	34.35	35.50
3.61	3.60	3.58	3.47	3.47	3.36
4.12	4.06	4.02	3.96	3.93	3.94
11,100 x 3	13,000 + 11,100 x 2	13,000 x 2 + 11,100	13,000 x 2 + 11,100	13,000 x 3	13,000 x 3
62	63	64	64	65	65
64	64	65	65	66	66
80	80	80	80	80	80
3.9 × 3 + 4.5 × 2	3.9 x 3 + 4.5 x 2	3.9 x 3 + 4.5 x 2	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690
930 × 3	930 x 2 + 1,240	930 + 1,240 x 2	930 + 1,240 x 2	1,240 x 3	1,240 x 3
765	765	765	765	765	765
275 + 275 + 220	303 + 275 + 220	303 + 303 + 220	303 + 303 + 275	303 + 303 + 303	303 + 303 + 303
11.8 × 2 + 11.2	11.8 x 2 + 11.2	11.8 x 2 + 11.2	11.8 x 3	11.8 x 3	11.8 x 3
19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

*1 Minimum connectable indoor unit number is 2.
However ARXC72 and ARXC90 can be used signal connection.
*2 The noise value is the value when measured in an anechoic room.
When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

NEW Heat Recovery

Smart and cutting edge design
Extensive lineup from 8HP to 48HP in 2HP increment
Connectable indoor unit capacity ratio up to 150%

8, 10, 12HP　　14, 16HP

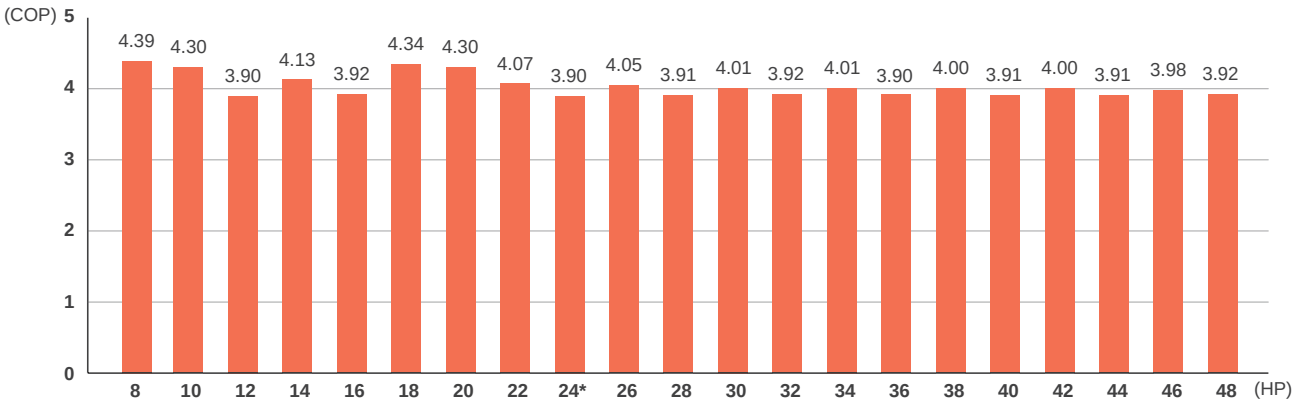
Features

High Efficiency

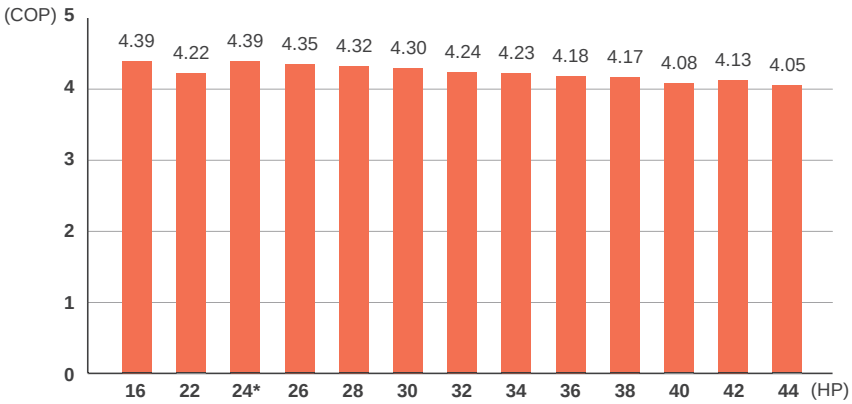
Efficiency in actual operation

Top class high COP is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.

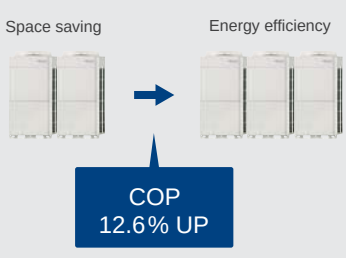
Space saving combination



Energy efficiency combination



For 24 HP Combination



Energy saving technology that boosted operation efficiency

Powerful large propeller fan

By using CFD*1 technology, a newly designed fan achieves high performance and low noise operation.

*1. CFD = Computational Fluid Dynamics

3 phase DC fan motor

Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.

Subcool heat exchanger

High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.

Sine-wave DC inverter control

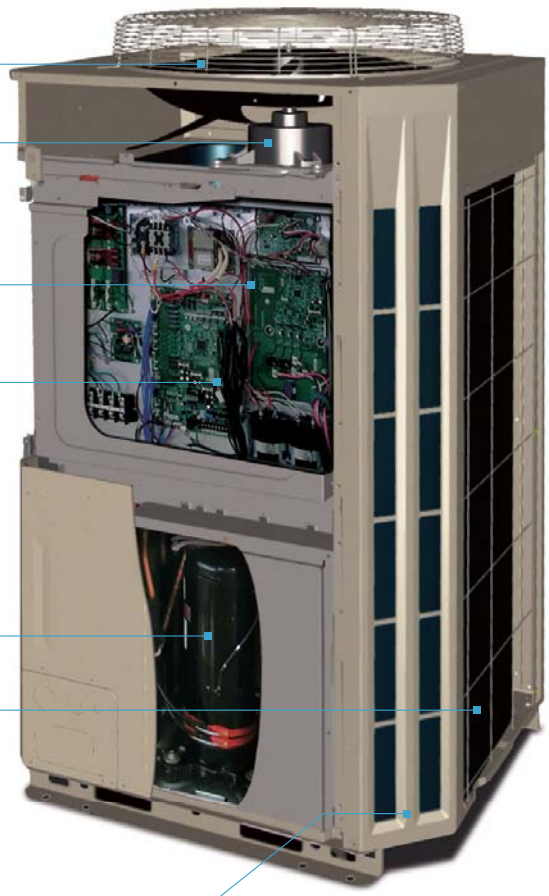
High efficiency is realized by adoption of reduced switching loss IPM.

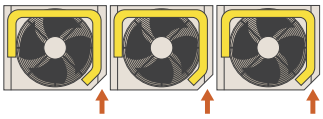
High efficient compressor
Large capacity DC inverter compressor

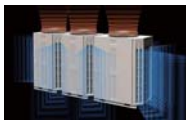
Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.

4-face heat exchanger

Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.





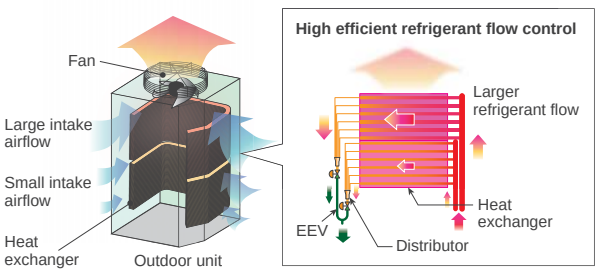


Front intake port
(corner cut air inhaling structure)

In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.

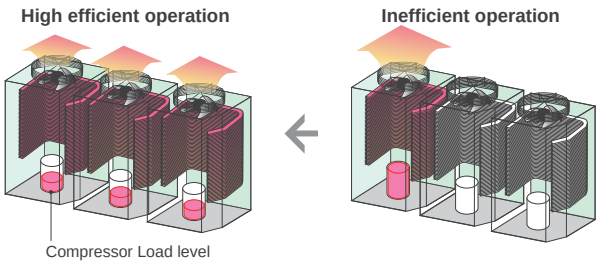
Ideal heat exchanger path control

Heat exchanger is split into top and bottom. Heat exchange efficiency is improved by optimum heat exchanger path refrigerant control. Refrigerant is more distributed at the top side heat exchanger with a large intake airflow.



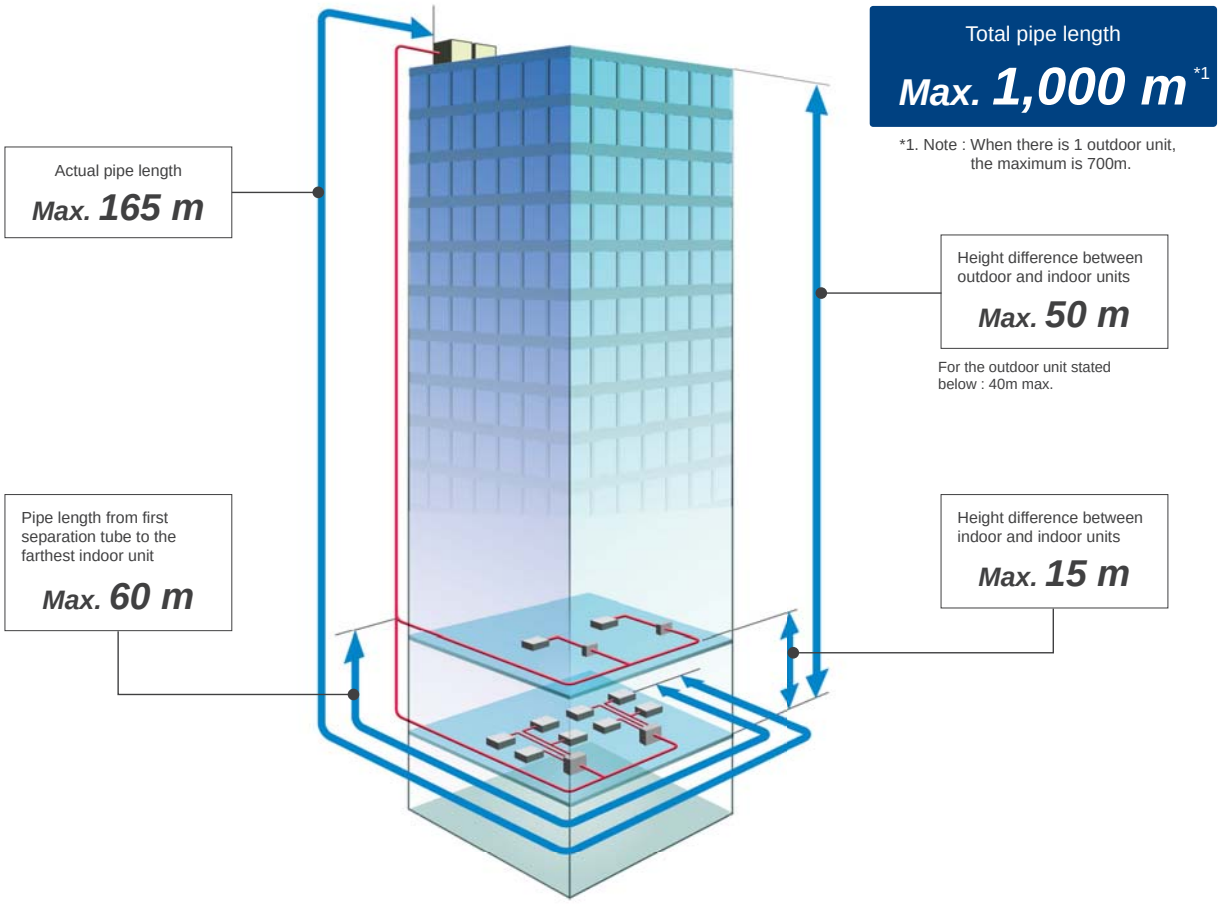
Sophisticated operation control

When multiple outdoor units are connected, sophisticated operation is performed by each compressor. Efficiency is improved by all compressors at part load and distributing refrigerant to all of the heat exchangers rather than to one compressor.



Design Flexibility

Overall piping length 1,000 m


Total pipe length
Max. 1,000 m *1
*1. Note : When there is 1 outdoor unit, the maximum is 700m.
Actual pipe length
Max. 165 m
Height difference between outdoor and indoor units
Max. 50 m
For the outdoor unit stated below : 40m max.
Pipe length from first separation tube to the farthest indoor unit
Max. 60 m
Height difference between indoor and indoor units
Max. 15 m

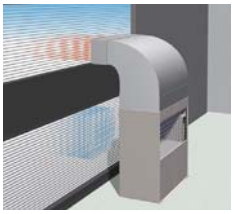
High static pressure of 80 Pa

Large diameter fan and 3 phase DC motor has been utilized allowing an external static pressure of 80 Pa. This allows outdoor units to be installed on balconies, etc. on each floor in high rise buildings.

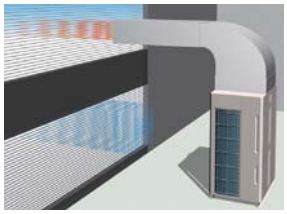
Powerful discharge with an external static pressure of 80 Pa.

80 Pa
as standard

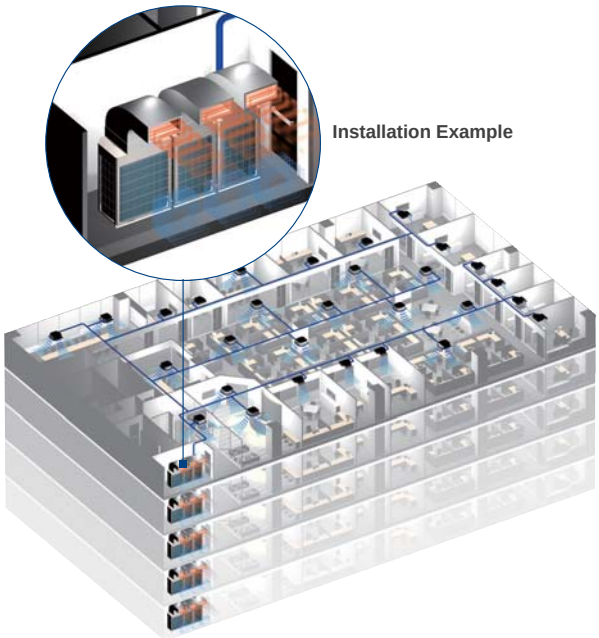
Previous model



V-II series



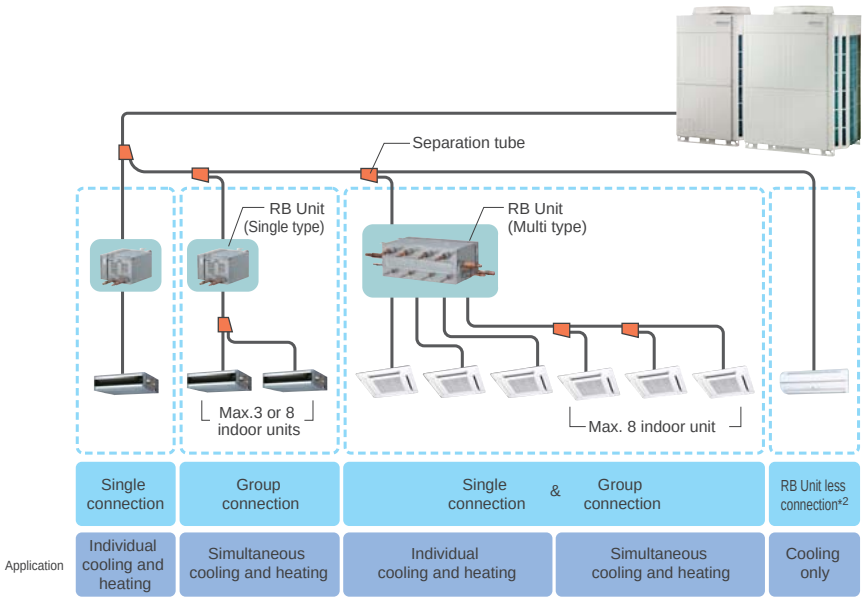
Large diameter fan and DC motor has been utilized allowing an external static pressure of 80Pa. This is approximately 2.6 times greater than the previous model.



Installation Example

Flexible piping connection

A more flexible refrigerant piping work is possible by the use of various piping and RB Unit connections, for adjustments to the floor layout and building structure.

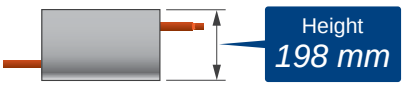


- The RB unit can be freely positioned between the first branch and the indoor unit.
- The maximum height difference between RB units is 15 m.

*2. RB Unit is not necessary for cooling only use.

Easy Installation & Maintenance

Flexible installation of RB unit

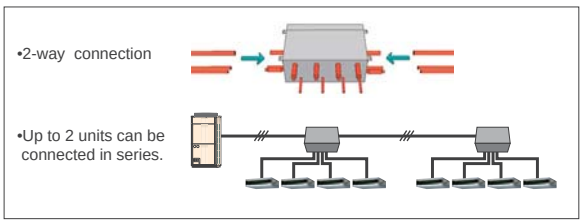


- Small & slim design saves space
- A drain pipe is not required
- The control box position can be changed to meet the installation conditions

Installation possible from either side for freedom of the control box

Installation possible on the upper-side for use in narrow space

- Small design saves space
- A drain pipe is not required
- Simple installation series connection design

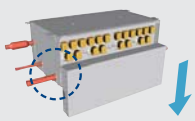


RB unit (multi type)

RB unit (single type)

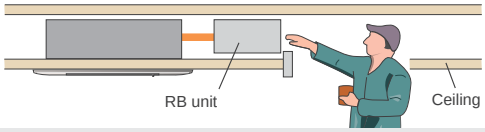
Easy to maintenance in a narrow space

- Maintenance can be performed from the side.



- Electrics box can be temporarily fixed by sliding down.

- Parts can be replaced easily even at narrow space in the ceiling.



Outdoor units lineup

•Combinations other than the followings are not recommended.

Space saving combination

22.4 kW (8HP) AJHA72GALH UNIT : AJHA72GALH	28.0 kW (10HP) AJHA90GALH UNIT : AJHA90GALH	33.5 kW (12HP) AJH108GALH UNIT : AJH108GALH	40.0 kW (14HP) AJH126GALH UNIT : AJH126GALH	45.0 kW (16HP) AJH144GALH UNIT : AJH144GALH
50.4 kW (18HP) AJH162GALH UNIT : AJHA90/A72GALH	56.0 kW (20HP) AJH180GALH UNIT : AJHA90/A90GALH	61.5 kW (22HP) AJH198GALH UNIT : AJH108/A90GALH	67.0 kW (24HP) AJH216GALH UNIT : AJH108/108GALH	73.0 kW (26HP) AJH234GALH UNIT : AJH144/A90GALH
78.5 kW (28HP) AJH252GALH UNIT : AJH144/108GALH	85.0 kW (30HP) AJH270GALH UNIT : AJH144/126GALH	90.0 kW (32HP) AJH288GALH UNIT : AJH144/144GALH	95.0 kW (34HP) AJH306GALH UNIT : AJH108/108/A90GALH	100.5 kW (36HP) AJH324GALH UNIT : AJH108/108/108GALH
106.5 kW (38HP) AJH342GALH UNIT : AJH144/108/A90GALH	112.0 kW (40HP) AJH360GALH UNIT : AJH144/108/108GALH	118.0 kW (42HP) AJH378GALH UNIT : AJH144/144/A90GALH	123.5 kW (44HP) AJH396GALH UNIT : AJH144/144/108GALH	130.0 kW (46HP) AJH414GALH UNIT : AJH144/144/126GALH
135.0 kW (48HP) AJH432GALH UNIT : AJH144/144/144GALH				

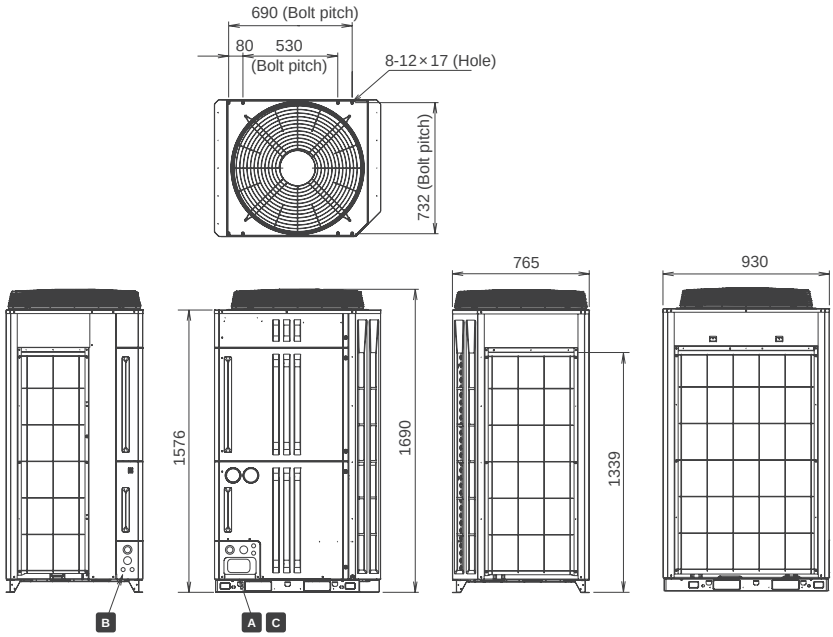
Energy efficiency combination

44.8 kW (16HP) AJH144GALHH UNIT : AJHA72/A72GALH	62.4 kW (22HP) AJH198GALHH UNIT : AJH126/A72GALH	67.2 kW (24HP) AJH216GALHH UNIT : AJHA72/A72/A72GALH	72.8 kW (26HP) AJH234GALHH UNIT : AJHA90/A72/A72GALH	78.4 kW (28HP) AJH252GALHH UNIT : AJHA90/A90/A72GALH
84.0 kW (30HP) AJH270GALHH UNIT : AJHA90/A90/A90GALH	90.4 kW (32HP) AJH288GALHH UNIT : AJH126/A90/A72GALH	96.0 kW (34HP) AJH306GALHH UNIT : AJH126/A90/A90GALH	102.4 kW (36HP) AJH324GALHH UNIT : AJH126/126/A72GALH	108.0 kW (38HP) AJH342GALHH UNIT : AJH126/126/A90GALH
113.0 kW (40HP) AJH360GALHH UNIT : AJH144/126/A90GALH	120.0 kW (42HP) AJH378GALHH UNIT : AJH126/126/126GALH	125.0 kW (44HP) AJH396GALHH UNIT : AJH144/126/126GALH		

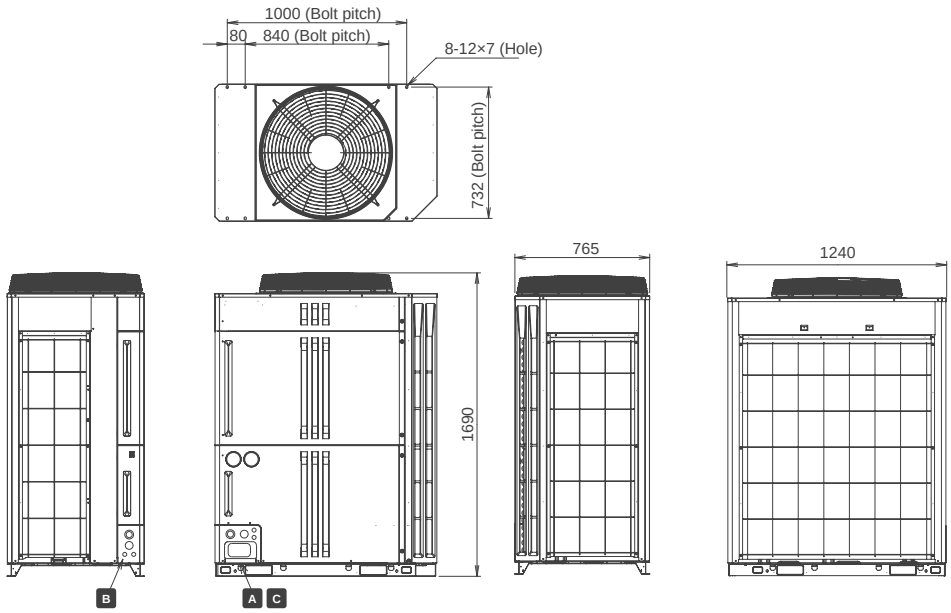
Dimensions

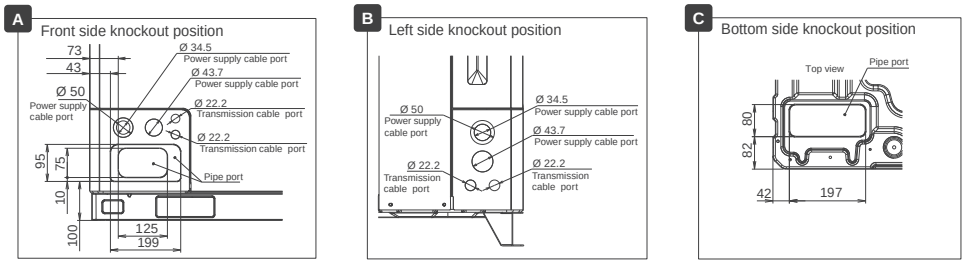
(Unit : mm)

8,10,12HP : AJHA72GALH / AJHA90GALH / AJH108GALH



14,16HP : AJH126GALH / AJH144GALH





Outdoor units specifications

Space Saving Combination

Rating Capacity range	HP		8	10	12	14	16	18	20	22	24
Set Model name			AJHA72GALH	AJHA90GALH	AJH108GALH	AJH126GALH	AJH144GALH	AJH162GALH	AJH180GALH	AJH198GALH	AJH216GALH
Unit 1 Unit 2 Unit 3			AJHA72GALH	AJHA90GALH	AJH108GALH	AJH126GALH	AJH144GALH	AJHA90GALH AJHA72GALH	AJHA90GALH AJHA90GALH	AJH108GALH AJHA90GALH	AJH108GALH AJH108GALH
Maximum Connectable Indoor Unit*1			15	16	17	21	24	27	30	32	35
Indoor unit connectable capacity		kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.2-75.6	28.0-84.0	30.8-92.2	33.5-100.5
Power source			3-phase 4 wire , 400 V, 50Hz								
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
	Heating		25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0
Input power	Cooling	kW	5.45	7.11	9.75	11.34	13.61	12.56	14.22	16.86	19.50
	Heating		5.70	7.33	9.62	10.90	12.77	13.03	14.66	16.95	19.24
EER	Cooling	W/W	4.11	3.94	3.44	3.53	3.31	4.01	3.94	3.65	3.44
COP	Heating	W/W	4.39	4.30	3.90	4.13	3.92	4.34	4.30	4.07	3.90
Air flow late		m^3/h	11,100	11,100	11,100	13,000	13,000	11,100×2	11,100×2	11,100×2	11,100×2
Sound pressure level*2	Cooling	dB(A)	56	58	59	60	61	60	61	62	62
	Heating		58	59	61	61	61	62	62	63	64
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80
Compresor motor output		kW	7.5	7.5	7.5	11.0	11.0	7.5×2	7.5×2	7.5×2	7.5×2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	930	1,240	1,240	930×2	930×2	930×2	930×2
	Depth		765	765	765	765	765	765	765	765	765
Weight		kg	262	262	262	286	286	262×2	262×2	262×2	262×2
Refrigerant charge		kg	11.8	11.8	11.8	11.8	11.8	11.8×2	11.8×2	11.8×2	11.8×2
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Discharge Gas		15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58
	Suction Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operation range	Cooling	˚CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Energy Efficiency Combination

Rating Capacity range	HP		16	22	24	26	28	30
Set Model name			AJH144GALHH	AJH198GALHH	AJH216GALHH	AJH234GALHH	AJH252GALHH	AJH270GALHH
Unit 1 Unit 2 Unit 3			AJHA72GALH AJHA72GALH	AJH126GALH AJHA72GALH	AJHA72GALH AJHA72GALH AJHA72GALH	AJHA90GALH AJHA72GALH AJHA72GALH	AJHA90GALH AJHA90GALH AJHA72GALH	AJHA90GALH AJHA90GALH AJHA90GALH
Maximum Connectable Indoor Unit*1			24	33	36	39	42	45
Indoor unit connectable capacity		kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.6	42.0-126.0
Power source			3-phase 4 wire , 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.4	84.0
	Heating		50.0	70.0	75.0	81.5	88.0	94.5
Input power	Cooling	kW	10.90	16.79	16.35	18.01	19.67	21.33
	Heating		11.40	16.60	17.10	18.73	20.36	21.99
EER	Cooling	W/W	4.11	3.72	4.11	4.04	3.99	3.94
COP	Heating	W/W	4.39	4.22	4.39	4.35	4.32	4.30
Air flow late		m^3/h	11,100×2	13,000+11,100	11,100×3	11,100×3	11,100×3	11,100×3
Sound pressure level*2	Cooling	dB(A)	59	61	61	62	62	63
	Heating		61	63	63	63	63	64
Maximum external static pressure		Pa	80	80	80	80	80	80
Compresor motor output		kW	7.5×2	11.0+7.5	7.5×3	7.5×3	7.5×3	7.5×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930×2	1,240+930	930×3	930×3	930×3	930×3
	Depth		765	765	765	765	765	765
Weight		kg	262×2	286+262	262×3	262×3	262×3	262×3
Refrigerant charge		kg	11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
	Discharge Gas		22.22	28.58	28.58	28.58	28.58	28.58
	Suction Gas		28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	˚CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

26	28	30	32	34	36	38	40	42	44	46	48
AJH234GALH	**AJH252GALH**	**AJH270GALH**	**AJH288GALH**	**AJH306GALH**	**AJH324GALH**	**AJH342GALH**	**AJH360GALH**	**AJH378GALH**	**AJH396GALH**	**AJH414GALH**	**AJH432GALH**
AJH144GALH AJHA90GALH	AJH144GALH AJH108GALH	AJH144GALH AJH126GALH	AJH144GALH AJH144GALH	AJH108GALH AJH108GALH AJHA90GALH	AJH108GALH AJH108GALH AJH108GALH	AJH144GALH AJH108GALH AJHA90GALH	AJH144GALH AJH108GALH AJH108GALH	AJH144GALH AJH144GALH AJHA90GALH	AJH144GALH AJH144GALH AJH108GALH	AJH144GALH AJH144GALH AJH126GALH	AJH144GALH AJH144GALH AJH144GALH
39	42	45	48	50	53	57	60	63	64	64	64
36.5-109.5	39.3-117.7	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.7	53.3-159.7	56.0-168.0	59.0-177.0	61.8-185.2	65.0-195.0	67.5-202.5
3-phase 4 wire , 400 V, 50Hz											
73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.0	123.5	130.0	135.0
81.5	87.5	95.0	100.0	106.5	112.5	119.0	125.0	131.5	137.5	145.0	150.0
20.72	23.36	24.95	27.22	26.61	29.25	30.47	33.11	34.33	36.97	38.56	40.83
20.10	22.39	23.67	25.54	26.57	28.86	29.72	32.01	32.87	35.16	36.44	38.31
3.52	3.36	3.41	3.31	3.57	3.44	3.50	3.38	3.44	3.34	3.37	3.31
4.05	3.91	4.01	3.92	4.01	3.90	4.00	3.91	4.00	3.91	3.98	3.92
13,000+11,100	13,000+11,100	13,000×2	13,000×2	11,100×3	11,100×3	13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
63	63	64	64	63	64	64	65	65	65	65	66
63	64	64	64	65	66	65	66	65	66	66	66
80	80	80	80	80	80	80	80	80	80	80	80
11.0+7.5	11.0+7.5	11.0×2	11.0×2	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240+930	1,240+930	1,240×2	1,240×2	930×3	930×3	1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×3	1,240×3
765	765	765	765	765	765	765	765	765	765	765	765
286+262	286+262	286×2	286×2	286×3	286×3	286+262×2	286+262×2	286×2+262	286×2+262	286×3	286×3
11.8×2	11.8×2	11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92
34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

32	34	36	38	40	42	44
AJH288GALHH	**AJH306GALHH**	**AJH324GALHH**	**AJH342GALHH**	**AJH360GALHH**	**AJH378GALHH**	**AJH396GALHH**
AJH126GALH AJHA90GALH AJHA72GALH	AJH126GALH AJHA90GALH AJHA90GALH	AJH126GALH AJH126GALH AJHA72GALH	AJH126GALH AJH126GALH AJHA90GALH	AJH144GALH AJH126GALH AJHA90GALH	AJH126GALH AJH126GALH AJH126GALH	AJH144GALH AJH126GALH AJH126GALH
48	51	54	57	60	64	64
45.2-135.6	48.0-144.0	51.2-153.6	54.0-162.0	56.5-169.5	60.0-180.0	62.5-187.5
3-phase 4 wire , 400 V, 50Hz						
90.4	96.0	102.4	108.0	113.0	120.0	125.0
101.5	108.0	115.0	121.5	126.5	135.0	140.0
23.90	25.56	28.13	29.79	32.06	34.02	36.29
23.93	25.56	27.50	29.13	31.00	32.70	34.57
3.78	3.76	3.64	3.63	3.52	3.53	3.44
4.24	4.23	4.18	4.17	4.08	4.13	4.05
13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
63	64	64	64	65	65	65
64	65	65	65	65	66	66
80	80	80	80	80	80	80
11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3
765	765	765	765	765	765	765
286+262×2	286+262×2	286×2+262	286×2+262	286×2+262	286×3	286×3
11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	34.92	34.92	34.92	34.92
34.92	34.92	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

*1 Minimum connectable indoor unit number is 2.

*2 The noise value is the value when measured in an anechoic room.
When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

Indoor Unit Lineup

12 Types, 55 Models, Capacity range from 1.1 kW to 25.0 kW

Capacity range (kW)		1.1	2.2	2.8	3.6	4.5
Model code		4	7	9	12	14
Cassette	Compact Cassette	AUXB04GALH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH
	Cassette					
Duct	Low Static Pressure Duct		ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH
	Slim Duct (With drain pump)	ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH
	Medium Static Pressure Duct					
	High Static Pressure Duct					
Floor	Floor (*Same as Ceiling models)				ABHA12GATH	ABHA14GATH
	Concealed Floor (*Same as Low Static Pressure Duct models)		ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH
	Slim Concealed Floor (*Same as Slim Duct models)	ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH
Ceiling	Ceiling				ABHA12GATH	ABHA14GATH
Wall Mounted	Wall Mounted	ASHA04GACH	ASHA07GACH	ASHA09GACH	ASHA12GACH	ASHA14GACH
	Wall Mounted (EEV external)	ASHE04GACH	ASHE07GACH	ASHE09GACH	ASHE12GACH	ASHE14GACH

With this model, connection of EV kit is necessary.

5.6	7.1	9.0	11.2	12.5	14.0	18.0	22.4	25.0
18	24	30	36	45	54	60	72	90
AUXB18GALH	AUXB24GALH							
AUXD18GALH	AUXD24GALH	AUXA30GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH			
ARXB18GALH								
ARXD18GALH	ARXD24GALH							
	ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH				
			ARXC36GATH	ARXC45GATH		ARXC60GATH*	ARXC72GATH*	ARXC90GATH*
ABHA18GATH	ABHA24GATH							
ARXB18GALH								
ARXD18GALH	ARXD24GALH							
ABHA18GATH	ABHA24GATH	ABHA30GATH	ABHA36GATH	ABHA45GATH	ABHA54GATH			
ASHA18GACH	ASHA24GACH	ASHA30GACH						

*: ARXC60/72/90LATH cannot be connected to J-IIS and J-II series.

Indoor Units Specifications

Compact Cassette

Model name				AUXB04GALH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH
Power source			V/Ø/Hz	230/1/50						
Capacity		Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
		Heating		1.3	2.8	3.2	4.1	5.0	6.3	8.0
Input power			W	23	25	25	29	35	36	84
Airflow rate		High	m^3/h	530	540	550	600	680	710	1,030
		Med		420/450*1	450	450	530	590	580	830
		Low		300/350*1	350	350	390	390	400	450
Sound pressure level		High	dB(A)	34	34	35	37	38	41	50
		Med		28/30*1	30	30	34	34	35	44
		Low		21/25*1	25	25	27	27	27	30
Dimensions (H x W x D)			mm	245 x 570 x 570						
Weight			kg	15					17	
Connection pipe diameter		Liquid (Flare)	mm	ø6.35					ø9.52	
		Gas (Flare)		ø12.70					ø15.88	
		Drain hose		VP [ø25 (I.D) ; ø32 (O.D.)]						
Cassette Grille	Model name			UTG-UFGC-W						
	Dimensions (H x W x D)		mm	50 x 700 x 700						
	Weight		kg	2.6						

Note : Specifications are based on the following conditions. Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is under cooling operation.

Cassette

Model name				AUXD18GALH	AUXD24GALH	AUXA30GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source			V/Ø/Hz	230/1/50					
Capacity		Cooling	kW	5.6	7.1	9.0	11.2	12.5	14.0
		Heating		6.3	8.0	10.0	12.5	14.0	16.0
Input power			W	39	46	59	80	99	119
Airflow rate		High	m^3/h	1,150	1,280	1,600	1,800	1,900	2,000
		Med		940	1,040	1,300	1,300	1,370	1,370
		Low		870	870	1,100	1,100	1,100	1,100
Sound pressure level		High	dB(A)	36	38	40	44	46	47
		Med		30	33	38	38	39	39
		Low		29	29	33	33	33	33
Dimensions (H x W x D)			mm	246 x 840 x 840		288 x 840 x 840			
Weight			kg	22		27			
Connection pipe diameter		Liquid (Flare)	mm	ø9.52					
		Gas (Flare)		ø15.88			ø19.05		
		Drain hose		VP25 [ø25 (I.D.) ; ø32 (O.D.)]					
Cassette Grille	Model name			UTG-UGGA-W					
	Dimensions (H x W x D)		mm	50 x 950 x 950					
	Weight		kg	5.5					

Note : Specifications are based on the following conditions. Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Low Static Pressure Duct / Concealed Floor

Model name			ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH	ARXB18GALH
Power source		V/Ø/Hz	230/1/50				
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating		2.8	3.2	4.0	5.0	6.3
Input power		W	46	55	63	90	96
Airflow rate	High	m^3/h	370	440	590	800	890
	Med		310	370	500	750	810
	Low		280	340	450	700	730
Static pressure range		Pa	0 to 50	0 to 50	0 to 50	0 to 50	0 to 50
Standard static pressure			25	25	25	25	25
Sound pressure level	High	dB(A)	29	31	30	33	36
	Med		26	29	28	32	34
	Low		24	27	25	30	30
Dimensions (H x W x D)		mm	217 x 663 x 595		217 x 953 x 595		
Weight		kg	15		22		23
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø9.52
	Gas (Flare)		ø12.70				ø15.88
	Drain hose		VP25 [ø25 (I.D.) ; ø32 (O.D.)]				

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Slim Duct / Slim Concealed Floor

Model name			ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH
Power source		V/Ø/Hz	230/1/50						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	40	44	50	54	92	83	122
Airflow rate	High	m^3/h	510	550	600	600	800	940	1,330
	Med		400/470*1	490	550	510	710	840	1,240
	Low		320/440*1	440	480	450	610	750	1,100
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25	25
Sound pressure level	High	dB(A)	26	28	29	30	34	34	35
	Med		21/25*1	25	26	27	32	32	32
	Low		20/22*1	22	24	24	28	28	29
Dimensions (H x W x D)		mm	198 x 700 x 620					198 x 900 x 620	198 x 1,100 x 620
Weight		kg	17			18		22	26
Connection pipe diameter	Liquid (Flare)	mm	ø6.35					ø9.52	
	Gas (Flare)		ø12.70					ø15.88	
	Drain hose		VP25 [ø25 (I.D.) ; ø32 (O.D.)]						

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
*1: This value is under cooling operation.

Medium Static Pressure Duct

Model name			ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH
Power source		V/Ø/Hz	230/1/50			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0
Input power		W	94	108	194	240
Airflow rate	High	m^3/h	1,280	1,410	1,840	1,970
	Med		990	1,280	1,600	1,860
	Low		840	1,150	1,470	1,640
Static pressure range		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound pressure level	High	dB(A)	31	34	37	41
	Med		27	32	35	38
	Low		23	29	33	36
Dimensions (H x W x D)		mm	270 x 1,135 x 700			
Weight		kg	36	40		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52			
	Gas (Flare)		ø15.88		ø19.05	
	Drain hose		VP25 [ø25 (I.D.) ; ø32 (O.D.)]			

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Indoor Units Specifications

High Static Pressure Duct

Model name			ARXC36GATH	ARXC45GATH	ARXC60GATH*	ARXC72GATH*	ARXC90GATH*
Power source		V/Ø/Hz	230/1/50				
Capacity	Cooling	kW	11.2	12.5	18.0	22.4	25.0
	Heating		12.5	14.0	20.0	25.0	28.0
Input power		W	405	715	730	1,110	1,250
Airflow rate	High	m^3/h	2,600	3,500	3,500	3,900	4,300
	Med		1,950	3,000	3,000	3,300	4,000
	Low		1,450	2,460	2,460	3,000	3,500
Static pressure range		Pa	100 to 200	100 to 250	100 to 250	50 to 300	100 to 300
Standard static pressure			100	100	100	260	250
Sound pressure level	High	dB(A)	45	49	49	51	53
	Med		38	45	45	48	51
	Low		32	42	42	45	49
Dimensions (H x W x D)		mm	400 x 1,050 x 500			450 x 1,550 x 700	
Weight		kg	43	46		83	85
Connection pipe diameter	Liquid	mm	ø9.52 (Flare)			ø12.70 (Brazing)	
	Gas		ø19.05 (Flare)			ø22.22 (Brazing)	
	Drain hose		VP25 [ø25 (I.D.) ; ø32 (O.D.)]				

Note : Specifications are based on the following conditions.
*: ARXC60/72/90LATH cannot be connected to J-II series.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Floor / Ceiling

Model name			ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH
Power source		V/Ø/Hz	230/1/50			
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
	Heating		4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
Airflow rate	High	m^3/h	660	780	1,000	1,000
	Med		570	640	720	820
	Low		490	550	580	680
Sound pressure level	High	dB(A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Dimensions (H x W x D)		mm	199 x 990 x 655			
Weight		kg	25	26	26	27
Connection pipe diameter	Liquid (Flare)	mm	ø6.35		ø9.52	
	Gas (Flare)		ø12.70		ø15.88	
	Drain hose		VP25 [ø25 (I.D.) ; ø32 (O.D.)]			

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].

Ceiling

Model name			ABHA30GATH	ABHA36GATH	ABHA45GATH	ABHA54GATH
Power source		V/Ø/Hz	230/1/50			
Capacity	Cooling	kW	9.0	11.2	12.5	14.0
	Heating		10.0	12.5	14.0	16.0
Input power		W	66	85	131	180
Airflow rate	High	m^3/h	1,630	1,690	2,010	2,270
	Med		1,370	1,400	1,600	1,780
	Low		1,140	1,170	1,230	1,280
Sound pressure level	High	dB(A)	42	45	48	51
	Med		38	38	42	45
	Low		33	34	35	36
Dimensions (H x W x D)		mm	240 x 1,660 x 700			
Weight		kg	46	48		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52	ø9.52		
	Gas (Flare)		ø15.88	ø19.05		
	Drain hose		VP25 [ø25 (I.D.) ; ø32 (O.D.)]			

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].

Wall Mounted

Model name			ASHA04GACH	ASHA07GACH	ASHA09GACH	ASHA12GACH	ASHA14GACH	ASHE04GACH	ASHE07GACH	ASHE09GACH	ASHE12GACH	ASHE14GACH
Power source		V/Ø/Hz	230/1/50					230/1/50				
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	1.1	2.2	2.8	3.6	4.5
	Heating		1.3	2.8	3.2	4.1	5.0	1.3	2.8	3.2	4.1	5.0
Input power		W	13	17	18	22	34	12	15	16	21	34
Airflow rate	High	m^3/h	450	490	500	560	670	450	490	500	560	680
	Med		370/440*1	450	450	480	490	370/440*1	450	450	480	490
	Low		320/420*1	370/420*1	370/420*1	420	420	300/420*1	370/420*1	370/420*1	420	420
Sound pressure level	High	dB(A)	33	35	36	39	44	32	34	35	38	43
	Med		27/32*1	33	33	35	37	26/31*1	32	32	34	35
	Low		22/31*1	27/31*1	27/31*1	31	32	19/30*1	26/30*1	26/30*1	30	30
Dimensions (H x W x D)		mm	275 x 790 x 215					275 x 790 x 215				
Weight		kg	9					9				
Connection pipe diameter	Liquid (Flare)	mm	ø6.35					ø6.35				
	Gas (Flare)		ø12.70					ø12.70				
	Drain hose		ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)					ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)				
EV Kit (option)			—					UTR-EV09XB			UTR-EV14XB	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].
*1 : This value is under cooling operation.

Wall Mounted

Model name			ASHA18GACH	ASHA24GACH	ASHA30GACH
Power source		V/Ø/Hz	230/1/50		
Capacity	Cooling	kW	5.6	7.1	8.0
	Heating		6.3	8.0	9.0
Input power		W	32	60	91
Airflow rate	High	m^3/h	840	1,100	1,240
	Med		770	910	980
	Low		690	730	770
Sound pressure level	High	dB(A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Dimensions (H x W x D)		mm	320 x 998 x 228		
Weight		kg	15		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52		
	Gas (Flare)		ø15.88		
	Drain hose		ø12 (I.D.) ; ø16 (O.D.)		

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].

Control system overview

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

For All AIRSTAGE™ series

Air Conditioning Individual Control

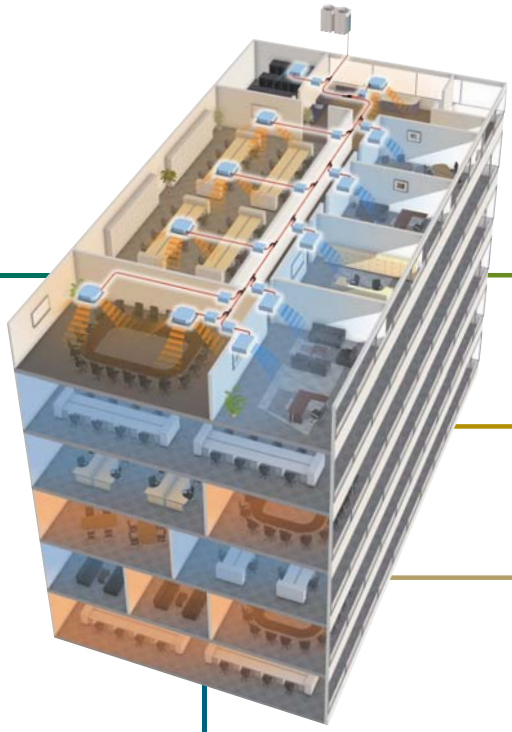
Wired Remote Controller (Touch panel)
UTY-RNRG

Wired Remote Controller
NEW UTY-RLRG

Simple Remote Controller
UTY-RSKG

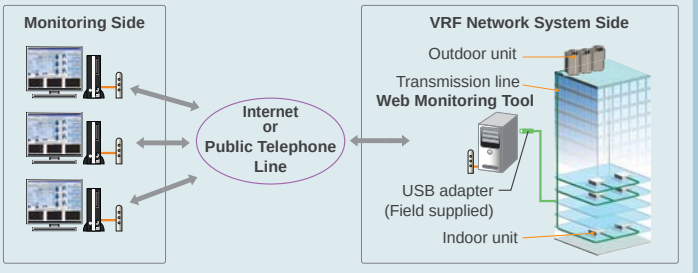
Simple Remote Controller
UTY-RHKG
Without operation mode

Wireless Remote Controller
UTY-LNHG



Service & Maintenance Tool

Web Monitoring System Software
UTY-AMGX

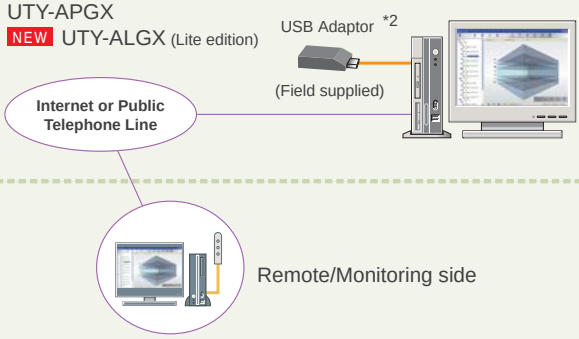


USB Adaptor *2 (Field supplied)

Service Tool Software
UTY-ASGX

Air Conditioning Centralized Control

System Controller Software
UTY-APGX
NEW UTY-ALGX (Lite edition)



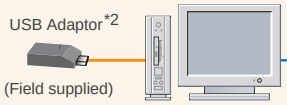
Touch Panel Controller
UTY-DTGG

Central Remote Controller
UTY-DCGG

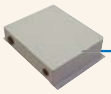
Group Remote Controller
UTY-CGGG

Convertor / Adaptor (for external device)

BACnet® Gateway Software
UTY-ABGX



Network Convertor (BMS/LONWORKS®)
UTY-VLGX



KNX® Interface
FJ-RC-KNX-1i

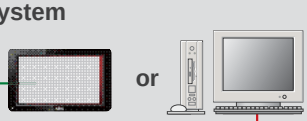
MODBUS® Interface
FJ-RC-MBS-1

Wireless LAN Interface
NEW FJ-RC-WIFI-1

External Switch Controller
UTY-TEKX

BMS/BAS *1

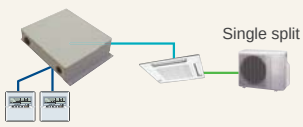
BMS, Home automation system



*1. BMS/BAS: Building Management System/Building Automation System
*2. USB Adaptor: Echelon® U10 USB Network Interface

Convertor / Adaptor (for system expansion)

Network Convertor
UTY-VGGXZ1



Signal Amplifier
UTY-VSGXZ1

Comparison table of Controllers

Item			Wired Remote Controller (Touch panel)	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller*1	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite Software	System Controller Software
Model name			UTY-RNRG	UTY-RLRG	UTY-RSKG	UTY-RHKG	UTY-LNHG	UTY-CGGG	UTY-DCGG	UTY-DTGG	UTY-ALGX	UTY-APGX
Max. controllable remote controller groups			1	1	1	1	1	8	100	400	400	1600
Max. controllable indoor units			16	16	16	16	16	128	100	400	400	1600
Max. controllable groups			–	–	–	–	–	–	16	400	400	1600
Air conditioning control function	On / Off		●	●	●	●	●	●	●	●	●	●
	Operation mode setting		●	●	●	–	●	●	●	●	●	●
	Fan speed setting		●	●	●	●	●	●	●	●	●	●
	Room temp. setting		●	●	●	●	●	●	●	●	●	●
	Room temp. set point limitation		●	●	–	–	–	–	●	●	●	●
	Test operation		●	●	●	–	●	–	●	●	–	–
	Up/down air direction flap setting		●	●	–	–	●	–	●	●	●	●
	Right/left air direction flap setting		●	●	–	–	●	–	●	●	●	●
	Group setting		–	–	–	–	–	–	●	●	●	●
	RC prohibition		–	–	–	–	–	–	●	●	●	●
	Anti freeze setting		●	–	–	–	–	–	●	●	●	●
	Economy mode setting		●	●	–	–	●	–	●	●	●	●
Display	Failure		●	●	●	●	–	●	●	●	●	●
	Defrosting		●	●	●	●	–	–	●	●	●	●
	Current time		●	●	–	–	●	●	●	●	●	●
	Day of week		●	●	–	–	–	●	–	●	●	●
	R.C. prohibition		●	●	●	●	–	●	●	●	●	●
	Cooling/heating priority		●	●	●	●	–	●	●	●	●	●
	Address display		●	●	●	●	–	●	●	●	●	●
	Room temp		●	–	–	–	–	–	–	–	–	–
	Multi language		●	–	–	–	–	–	●	●	●	●
	Summer time		●	–	–	–	–	–	●	●	●	●
	Name registration		●	–	–	–	–	–	●	●	●	●
	Backlight		●	–	●	●	–	–	●	●	–	–
	2D floor layout / 3D building display		–	–	–	–	–	–	–	–	–	●
Timer	Schedule timer	Period	Week	Week	–	–	–	Week	Week	Year	Year	Year
		On/off, Temp, Mode, Times per day	8	4	–	–	–	4	20	20	144	144
	On/off timer		●	●	–	–	●	–	–	–	–	–
	Sleep timer		–	–	–	–	●	–	–	–	–	–
	Program timer		–	–	–	–	●	–	–	–	–	–
	Auto off timer		●	●	–	–	–	–	–	–	–	–
	Day off		●	●	–	–	–	–	●	●	●	●
	Min. unit of timer setting (Minutes)		10 • 30	30	30	30	5	10	10	10	10	10
Control	Status monitoring system		–	–	–	–	–	–	●	●	●	●
	Electricity charge apportionment		–	–	–	–	–	–	–	–	○	●
	Error history		●	●	●	●	–	●	●	●	●	●
	Emergency stop		–	–	–	–	–	–	●*2	●*2	–	–
	Remote management		–	–	–	–	–	–	–	–	○	●
	Energy saving management		–	–	–	–	–	–	–	–	○	○
	E-mail notification for malfunction		–	–	–	–	–	–	–	–	●	●
	Key lock		● Child lock	● Child lock	–	–	–	● Child lock	● Password setting	● Password setting	● Password setting	● Password setting

*1 "Operation mode" setting is not available for this model.
*2 This function is available only through external input control.

● : Supported ○ : Optional function
— : Not supported yet

Max. controllable 16 Indoor units

Wired Remote Controller (Touch Panel) : UTY-RNRG

Easy operation by high-definition large STN-LCD touch panel screen

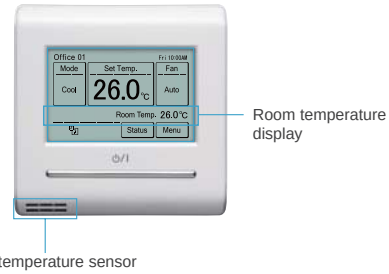
- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer(ON/OFF,Temp.,Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)
- 2-wire type

High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using one remote controller only.

Accurate and comfortable control

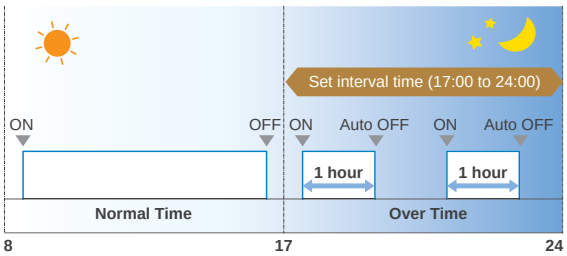
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.



Various energy saving control

Auto OFF timer

- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 to 240 minutes

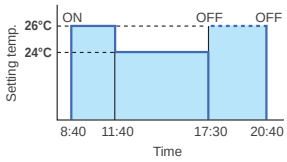


Ex.) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off
Set off time : 1 hour

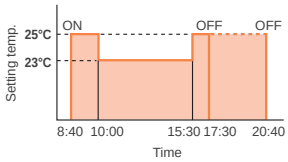
2 schedules Weekly Timer

- 2 schedules such as for the summer and winter can be set.
- 8 setting changeable per day of week (Setting items: On/Off, Temperature, Mode, Time)

Schedule 1 (Summer schedule)



Schedule 2 (Winter schedule)



Set Temperature Auto Return

The setting temperature automatically returns to the previous setting temperature. The time range in which the set temperature can be changed is 10 to 120 minutes.

Set Temperature Upper and Lower Limit Setting

The set temperature range can be set for each operation mode. (Cooling / Heating / Auto)

Specifications

Model name	UTY-RNRG
Power Source	DC 12 V
Dimensions (H x W x D) (mm)	120 x 120 x 20.4
Weight (g)	220

DC12 V is supplied by the indoor unit.

Max. controllable 16 Indoor units

NEW Wired Remote Controller : UTY-RLRG

- Various timer setup (ON / OFF / WEEKLY) are possible.
- The room temperature can be controlled by detecting the temperature accurately with Built-in thermo sensor.
- When a failure occurs, the error code is displayed.
- Error history. (Last 16 error codes can be accessed.)
- 2-wire type

High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using only one remote controller.

Individual control + Thermo sensor + Weekly timer + Auto off timer →

High visibility and easy operation

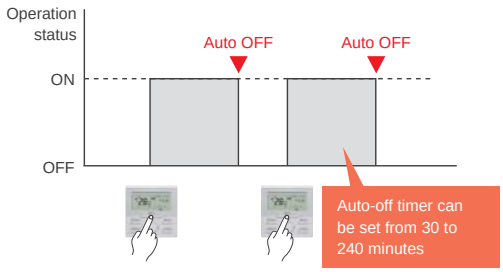
- "Mode", "Set Temp", and "Fan" are displayed at large size on the top screen.
- Each function to be set is indicated by an icon.
- Control guide is displayed and operation is simple and straightforward.

Set contents can be displayed clearer with large LCD.

Sophisticated control buttons
Simple operation with easy 4-way navigation pad

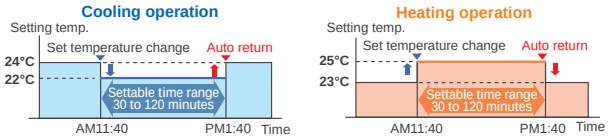
Auto-off timer

- The indoor unit automatically turns off after a set time has passed.



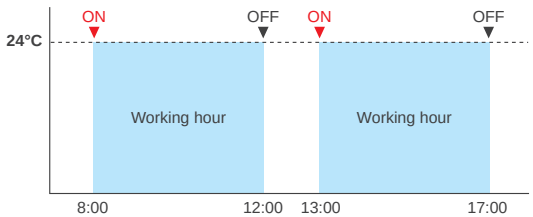
Set temperature auto return

- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 120 minutes.



Weekly timer function

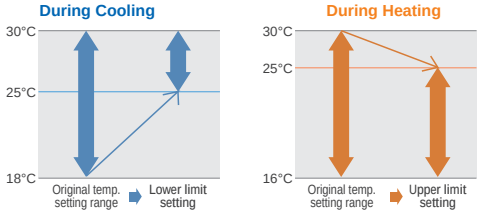
- Not only time setting On / Off, but also setting of the operation mode and set temperature can be set by Weekly timer function.



4 types (ON, OFF, ON, OFF) can be set on every day of the week in a week.

Set temperature upper and lower limit setting

- The set temperature range can be set for each operation mode. (Cooling / Heating / Auto)



Specifications

Model name	UTY-RLRG
Power supply	DC 12V
Dimension (H × W × D) (mm)	120 × 120 × 17
Weight (g)	170

* DC12V is supplied by indoor unit.

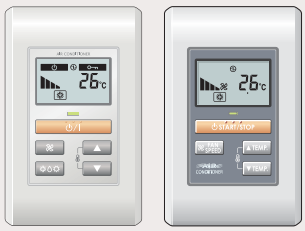
Max. controllable 16 Indoor units

Simple Remote Controller :

UTY-RSKG / UTY-RHKG (Without operation mode)

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- 3-wire type



Without operation mode

Easy-to-use operation

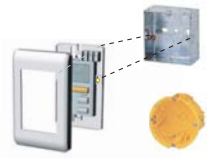
- Provides access to basic operations, such as Start / Stop, Fan control, Operation mode switching, and Room temperature setting.
- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Can be used jointly with other individual control unit.
- Following an error display, diagnostics can be carried out on the controller.

Backlight

- Backlight enables easy operation in a darkened room.
- Backlight activates during all button operations, and lasts 10 seconds in Operation mode and 5 seconds in stop mode after a button is pressed.

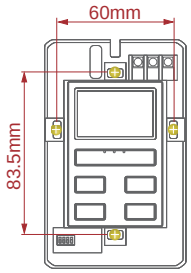
Simple installation

Can be mounted on the European Mounting Box (Installation dimension: 60mm) or the JIS Built-in Box (Installation dimension: 83.5mm).



European switch box

JIS built-in box



Functions

Operation \ Model	UTY-RSKG	UTY-RHKG
On / Off	●	●
Fan control	●	●
Operation mode	●	— *1
Room temp. setting	●	●

*1: "Operation mode" setting is not available. It is recommend to use together with other type controller.

Specifications

Model name	UTY-RSKG	UTY-RHKG
Power Source	DC 12 V	DC 12 V
Dimensions (H x W x D) (mm)	120 x 75 x 14	120 x 75 x 14
Weight (g)	90	90

DC12 V is supplied by the indoor unit.

Max. controllable 16 Indoor units

Selectable 4 daily timers

Wireless Remote Controller : UTY-LNHG

Simple and sophisticated operations with a choice of 4 daily timers

•A single controller controls up to 16 indoor units.

Built-in timers

Select from 4 different timer programs:
On / Off / Program / Sleep
Program timer: The program timer operates the ON and OFF timer once within a 24 hour period.
Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

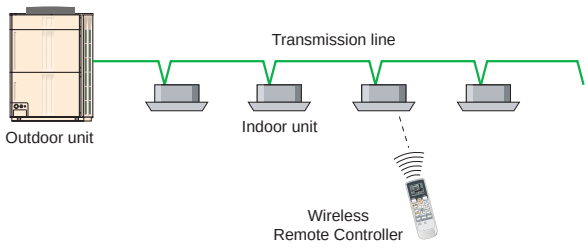
Easy installation and operation

•Code selector switch prevents indoor unit mix-up. (Up to 4 codes can be set.)

•Wide and precise transmitting range.

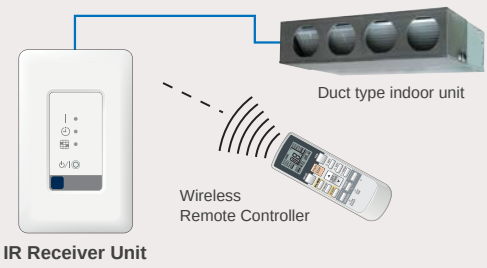
System addressing

During installation work, system addressing can be performed using the Wireless Remote Controller, thus eliminating manual switch setting.



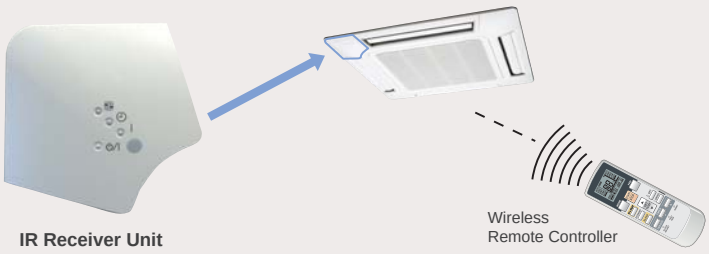
IR Receiver Unit : UTB-YWC

Necessary to control for all duct type by Wireless Remote Controller



IR Receiver Unit : UTY-LRHGB1

Cassette type indoor unit can be controlled with Wireless Remote Controller



Specifications

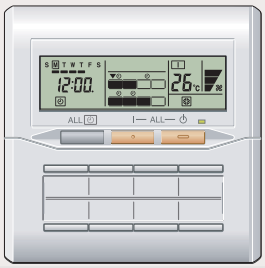
Model name	UTY-LNHG	UTB-YWC	UTY-LRHGB1
Battery	1.5 V (R03 / LR03 / AAA) x 2	DC 12 V	DC 12 V
Dimensions (H x W x D) (mm)	170 x 56 x 19	145 x 90 x 30	193.9 x 193.9 x 31.2
Weight (g)	85	150	140

DC12 V is supplied by the indoor unit.

Group Remote Controller : UTY-CGGG

Max.controllable 64 group R.C. in a VRF network system

Max. controllable 8 remote controller groups

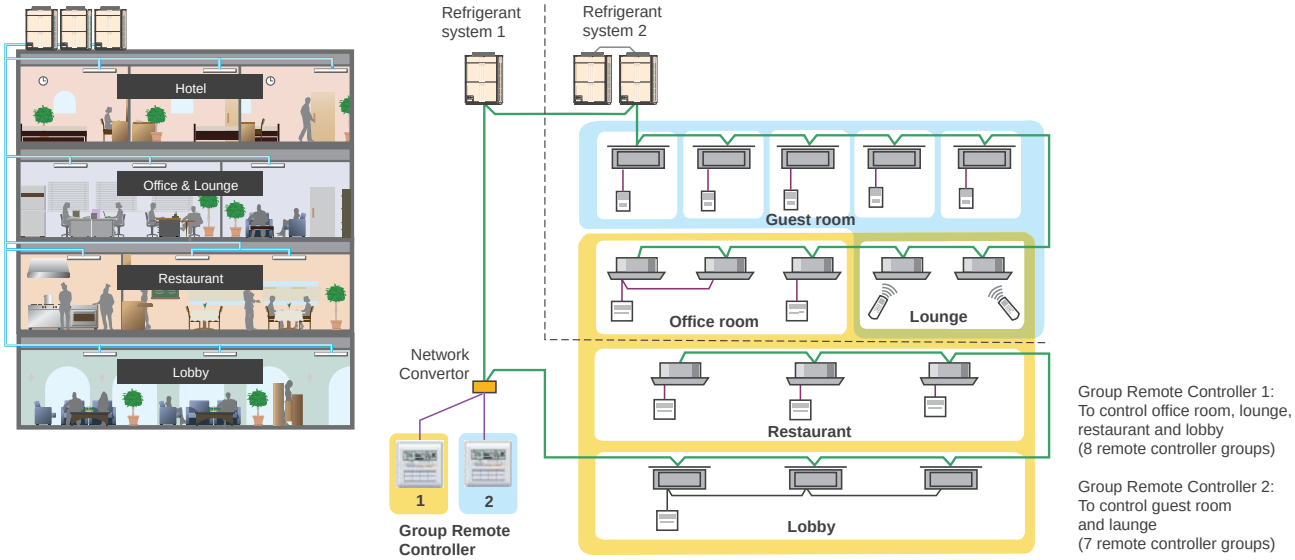


Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Convertor is required to connect Group Remote Controllers to a VRF network system. (Network Convertor allows up to 4 Group Remote Controllers)
- 3-wire type

Control up to 8 remote controller groups

- Single Group Remote Controller controls and monitors up to 8 remote controller groups.



Group Remote Controller 1:
To control office room, lounge, restaurant and lobby
(8 remote controller groups)

Group Remote Controller 2:
To control guest room and launge
(7 remote controller groups)

High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.

Central control + ON/OFF control + Weekly timer →

Built-in weekly timers

The weekly timer is provided as a standard function.

1. The timer can be set up for up to 4 times per day. (On / Off, operating mode, set temperature)
2. Allows separate settings for each day of the week.

Specifications

Model name	UTY-CGGG
Power Supply	DC 12 V
Dimensions (H x W x D) (mm)	120 x 120 x 18
Weight (g)	200

DC12 V is supplied by the indoor unit.

Max. controllable 100 Indoor units

Max. controllable 16 groups

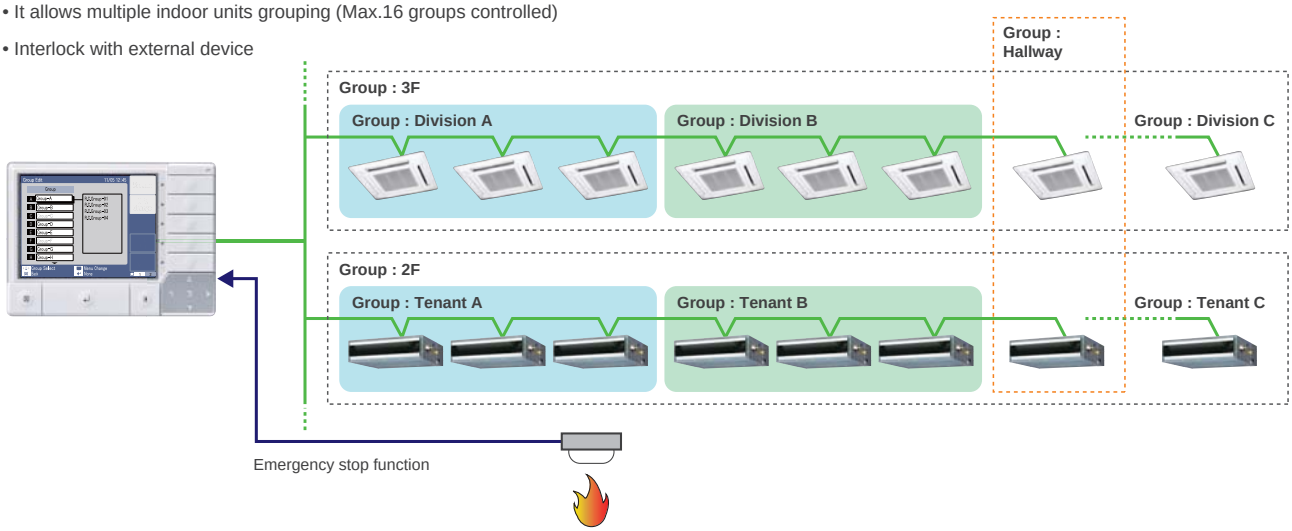
Central Remote Controller : UTY-DCGG

Central Remote Controller fits small- and medium-sized buildings and tenants.

- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- High visibility and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.
- 2-wire type

System overview

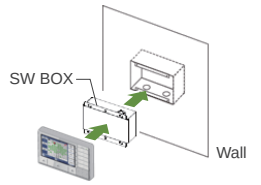
- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



Easy Installation

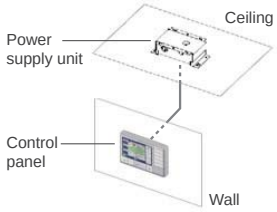
- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.

Setting pattern 1



Control panel + Power supply unit

Setting pattern 2



Functions

- Diverse control of indoor units
- Weekly timer
- Automatic clock adjustment
- Error history

Specifications

Model name	UTY-DCGG	
	Control Panel	Power Supply Unit
Power Supply	DC 5 V	100-240 V, 50-60Hz, Single phase
Dimensions (H x W x D) (mm)	120 x 162 x 25.7	99 x 135 x 39.2
Weight (g)	308	355

<PACKING LIST>

Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.

Max. controllable 400 Indoor units

Touch Panel Controller : UTY-DTGG

- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- No additional component is required for installation
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.
- 2-wire type

Easy operation

- Wide range of simple-to-understand icons
- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon
- Up-to-date status display
- Background color identifies current control operation blue for monitoring, green for operational control

Functions

Individual control

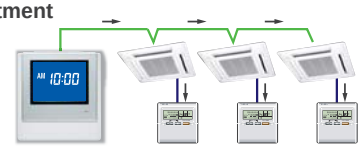
Flexible grouping

Schedule control

Indoor units operation monitoring

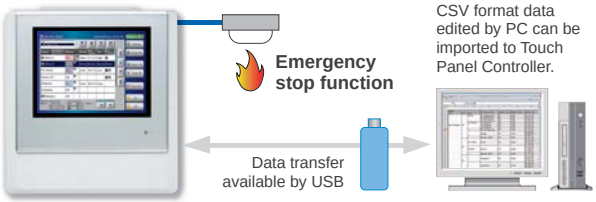
Automatic clock adjustment

The time setting of each controller can be set in batch automatically.



Versatility

- **Emergency stop function:** Air conditioner can be turned off through the external input control
- The stored data can be transferred via USB port
- CSV format data edited by PC can be imported to Touch Panel Controller.


Emergency stop function
CSV format data edited by PC can be imported to Touch Panel Controller.
Data transfer available by USB

Easy installation

- Touch Panel Controller is easily mounted to the wall.
- Flat back surface allows to be installed wherever it is needed.
- No additional component is required for installation.

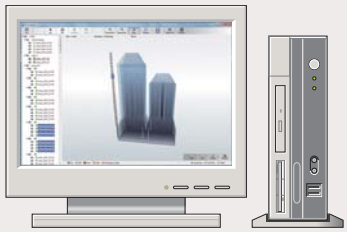
Specifications

Model name	UTY-DTGG
Power Supply	100-240 V 50/60Hz, Single phase
Dimensions (H x W x D) (mm)	260 x 246 x 54
Weight (g)	2,150
Interface	USB 2.0

System Controller : UTY-APGX Software

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)



Max. controllable 4 VRF network systems

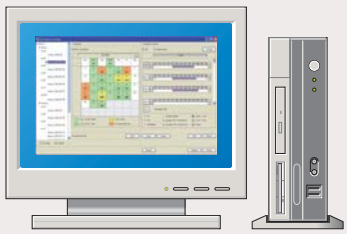
Max. controllable 400 outdoor units

Max. controllable 1,600 indoor units

System Controller Lite : UTY-ALGX Software NEW

System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customoers a wide range of choice.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)



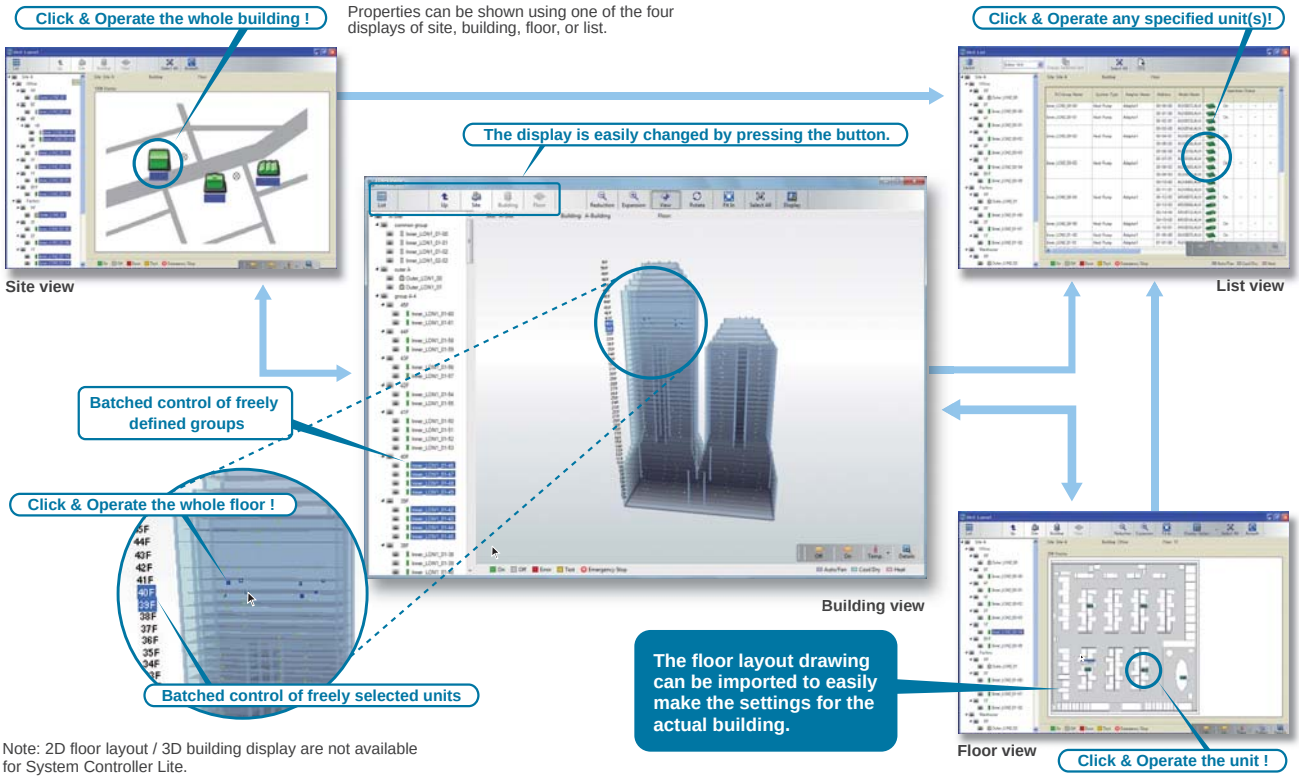
Max. controllable 1 VRF network systems

Max. controllable 100 outdoor units

Max. controllable 400 indoor units

High visibility and Easy operation

- **Click & Operate** : The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.
- **Freely define groups for batched control** : Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.


Click & Operate the whole building !
Properties can be shown using one of the four displays of site, building, floor, or list.
Click & Operate any specified unit(s)!
The display is easily changed by pressing the button.
Site view
List view
Batched control of freely defined groups
Click & Operate the whole floor !
Batched control of freely selected units
Building view
The floor layout drawing can be imported to easily make the settings for the actual building.
Floor view
Click & Operate the unit !

Note: 2D floor layout / 3D building display are not available for System Controller Lite.

Diverse operation management & Data management

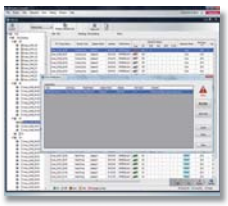
Standard for System Controller and System Controller Lite

Schedule management

- Annual schedules can be set for each remote controller group / user defined group.
- Start / stop, operating mode, remote controller prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group.
- Settings can be made for periods straddling midnight.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.

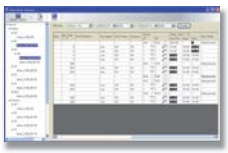
Error display & E-mail notification

Error is notified with popup message, audible sound and E-mail real time when error occurs. Error for the past 1 year are logged and can be reviewed later.



Operating & control record

Displays the history of operation status and control.



Diverse control of indoor unit

- Indoor unit operation state, operation mode, etc. are displayed
- Indoor unit start / stop and operation mode switching
- Room temperature set point limitation

Data base import/export

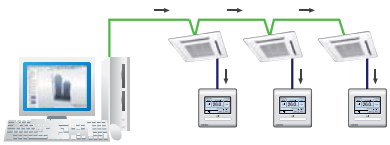
Imports/exports registration data, layout data, and image data.
Only the administrator can make this setting.

Remote controller prohibition

This prohibits changes to the operation mode, temperature, start/stop, etc.

Automatic clock adjustment

The time setting of each controller can be set in batch automatically.

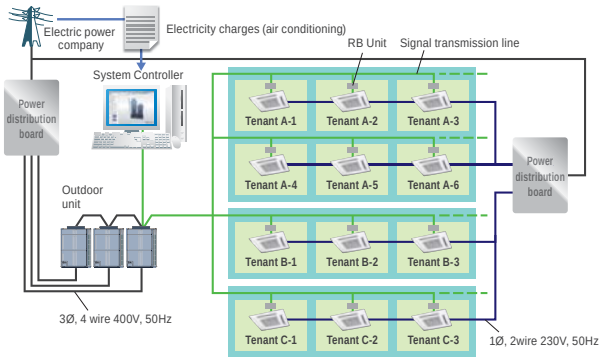


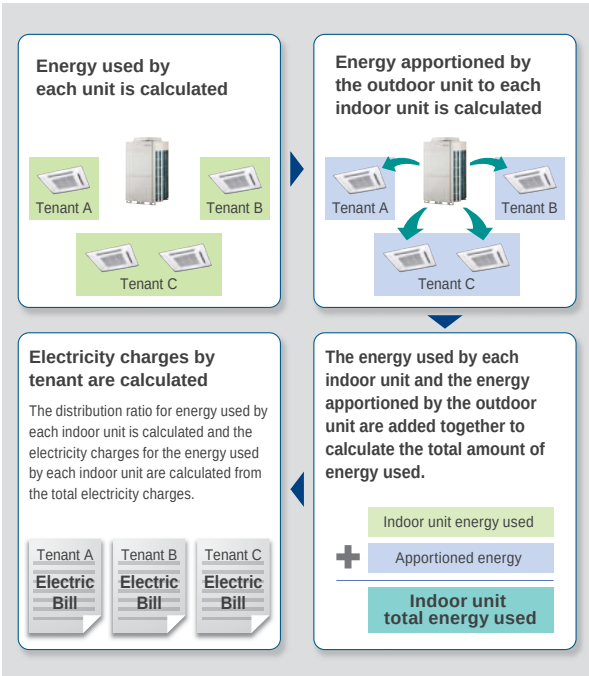
Electricity charge apportionment

Standard for System Controller
Option for System Controller Lite UTY-PLGXA1

Electricity charge apportionment calculation framework
Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)
The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

System Configuration Example




Energy used by each unit is calculated
Tenant A
Tenant B
Tenant C
Energy apportioned by the outdoor unit to each indoor unit is calculated
Tenant A
Tenant B
Tenant C
Electricity charges by tenant are calculated
The distribution ratio for energy used by each indoor unit is calculated and the electricity charges for the energy used by each indoor unit are calculated from the total electricity charges.
Tenant A Electric Bill
Tenant B Electric Bill
Tenant C Electric Bill
The energy used by each indoor unit and the energy apportioned by the outdoor unit are added together to calculate the total amount of energy used.
Indoor unit energy used
Apportioned energy
Indoor unit total energy used

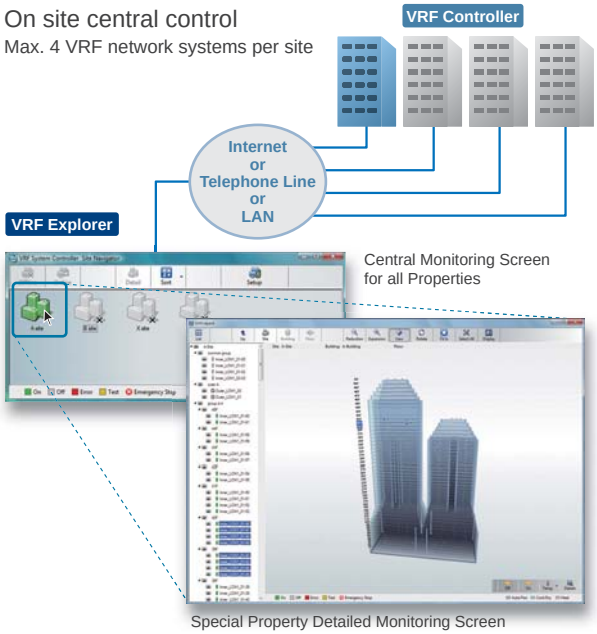
Remote management

Standard for System Controller
Option for System Controller Lite UTY-PLGXR1

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 softwares working together. VRF Controller runs on site and communicate with VRF system. VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller. VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

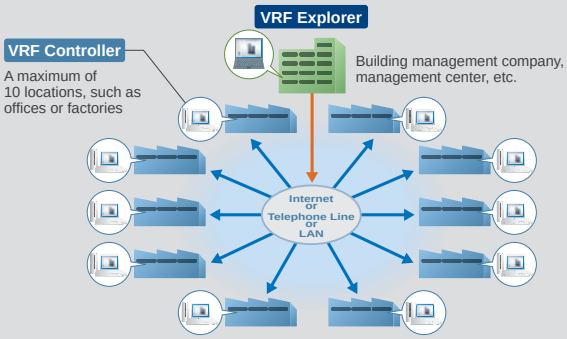
On site central control

Max. 4 VRF network systems per site

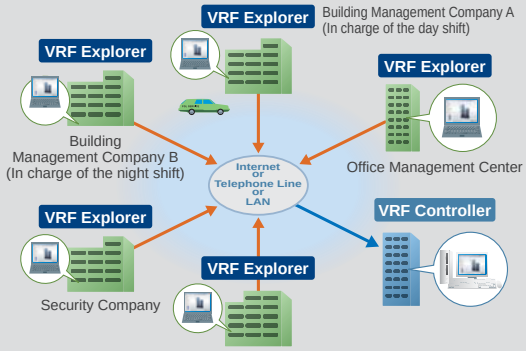

VRF Controller
Internet or Telephone Line or LAN
VRF Explorer
Central Monitoring Screen for all Properties
Special Property Detailed Monitoring Screen

Remote central control

1 VRF Explorer can control or monitor up to 10 sites.


VRF Explorer
VRF Controller
A maximum of 10 locations, such as offices or factories
Building management company, management center, etc.
Internet or Telephone Line or LAN

1 VRF Controller can be monitored from any number of VRF Explorers (Up to 5 connections simultaneously).



Energy saving management

Option for System Controller UTY-PEGX
Option for System Controller Lite UTY-PLGXE1

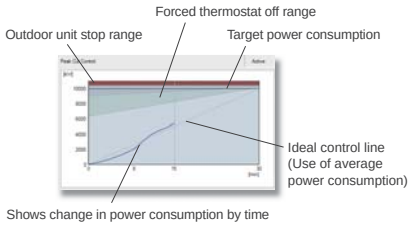
A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.

Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year to make it easy to analyze the energy saving effect.

Energy Saving Management Main Screen

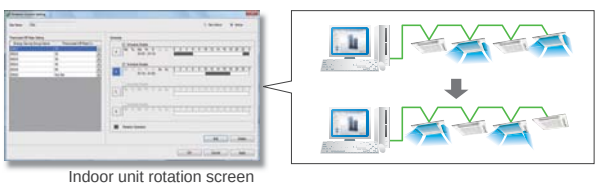
Peak cut operation

A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.


Forced thermostat off range
Outdoor unit stop range
Target power consumption
Ideal control line (Use of average power consumption)
Shows change in power consumption by time

Indoor unit rotation operation

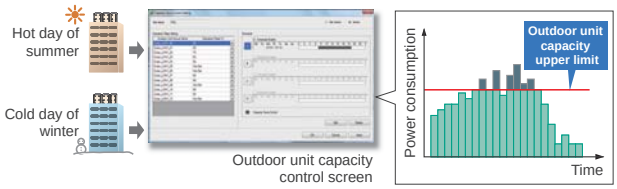
The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.



Indoor unit rotation screen

Outdoor unit capacity save

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.



FUNCTIONS SUMMARY

Function	Type		System controller		System controller lite			
			UTY-APGX	Option UTY-PEGX	UTY-ALGX	Option UTY-PLGXR1	Option UTY-PLGXA1	Option UTY-PLGXE1
System specification	Max. VRF networks supported		4	-	1	-	-	-
	Max. indoor unit / remote controller groups per VRF network		400	-	400	-	-	-
	Max. outdoor units per System controller		100	-	100	-	-	-
	Max. indoor units / remote controller groups per System controller		1600	-	400	-	-	-
	Max. outdoor units per System controller		400	-	100	-	-	-
Site supervision	Multi site display		10	-	10	-	-	-
	Number of building / 1 site		20	-	-	-	-	-
	Number of floor per 1 site		200	-	-	-	-	-
	Number of floor per 1 building		50	-	-	-	-	-
	3D graphical layout view		○	-	-	-	-	-
	2D graphical layout view		○	-	-	-	-	-
	List display		○	-	○	-	-	-
	Tree display		○	-	○	-	-	-
	Group display		○	-	○	-	-	-
Error management	Error notification		○	-	○	-	-	-
	Audible alarm		○	-	○	-	-	-
	Error e-mail notification		○	-	○	-	-	-
History	Error history		○	-	○	-	-	-
	Operation history		○	-	○	-	-	-
	Control history		○	-	○	-	-	-
Operation control	Individual control	On/Off	○	-	○	-	-	-
		Operation mode	○	-	○	-	-	-
		Room temperature	○	-	○	-	-	-
		Fan speed	○	-	○	-	-	-
		Air flow direction	○	-	○	-	-	-
		Economy mode	○	-	○	-	-	-
		Room temperature set point limitation	○	-	○	-	-	-
		Test operation	○	-	○	-	-	-
		Antifreeze	○	-	○	-	-	-
	Individual management	Remote control prohibition setting	○	-	○	-	-	-
		Temperature upper and lower limit setting	○	-	○	-	-	-
		Filter sign reset	○	-	○	-	-	-
	Other	Memory operation	○	-	○	-	-	-
		Pattern operation	○	-	○	-	-	-
Schedule	Annual Schedule		○	-	○	-	-	-
	Special day setting		○	-	○	-	-	-
	On /off per day		72	-	72	-	-	-
	On / off per week		504	-	504	-	-	-
	Day off		○	-	○	-	-	-
	Min. unit of timer setting (Minutes)		10	-	10	-	-	-
	Low noise mode Weekly schedule		○	-	○	-	-	-
Remote managemment	Remote monitoring		○	-	-	○	-	-
	Remote operation control		○	-	-	○	-	-
	Remote function setting		○	-	-	○	-	-
Electricity charge apportionment	Apportionment charge/bill calculation		○	-	-	-	○	-
	Tenant (block) setting		○	-	-	-	○	-
	Common facilities apportionment setting		○	-	-	-	○	-
	Rated power consumption allotment setting		○	-	-	-	○	-
	Individual calculation at cooling and heating		-	○*	-	-	○	-
	Electricity meter supported		-	○	-	-	○	-
Energy saving management	Indoor unit rotation		-	○	-	-	-	○
	Peak cut control		-	○	-	-	-	○
	Outdoor unit capacity save		-	○	-	-	-	○
	Record of energy saving operation		-	○	-	-	-	○
	Energy saving information		-	○	-	-	-	○
	Power consumption monitor		-	○	-	-	-	○
	Electricity meter supported			○				○
Others	Database import/export		○	-	○	-	-	-
	Automatic clock adjustment		○	-	○	-	-	-
	Multi language		7 languages	-	7 languages	-	-	-

○: Available. – : Not available.

*:Power calculation application software is necessary, please contact the local FGL representative.

Personal computer system requirements

Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	• For Windows Vista® and Windows® 7 (32-bit): 2 GB or more • For Windows® 7 (64-bit), Windows® 8, and Windows® 8.1: 4 GB or more
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	USB port is required for each of the followings for Server PC ; • Wibu Key (Software protection key) • Echelon® U10 USB Network Interface (Required for each VRF Network) Ethernet port is required for remote connection using internet.
Accelerator	Microsoft® DirectX® 9.0c compatible
Software	Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

Personal computer must be field supplied.
U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R

PACKING LIST

Type	For System controller		For System controller Lite			
	System Controller	Option Energy manager	System Controller Lite	Option Remote access	Option Electricity charge apportionment	Option Energy saving
Model name	UTY-APGX	UTY-PEGX	UTY-ALGX	UTY-PLGXR1	UTY-PLGXA1	UTY-PLGXE1
DVD-ROM	1	1	1	–	–	–
WibuKey*1(Software protection key)	1	1	1	1	1	1

*1:Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.
System Controller or System Controller Lite may only run on a PC with Wibu Key. However, WibuKey is not required for remote VRF Explorer software.

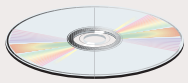
BACnet® Gateway : UTY-ABGX Software

Max. controllable 4 VRF network systems

Max. controllable 400 outdoor units

Max. controllable 1,600 indoor units

- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2004) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

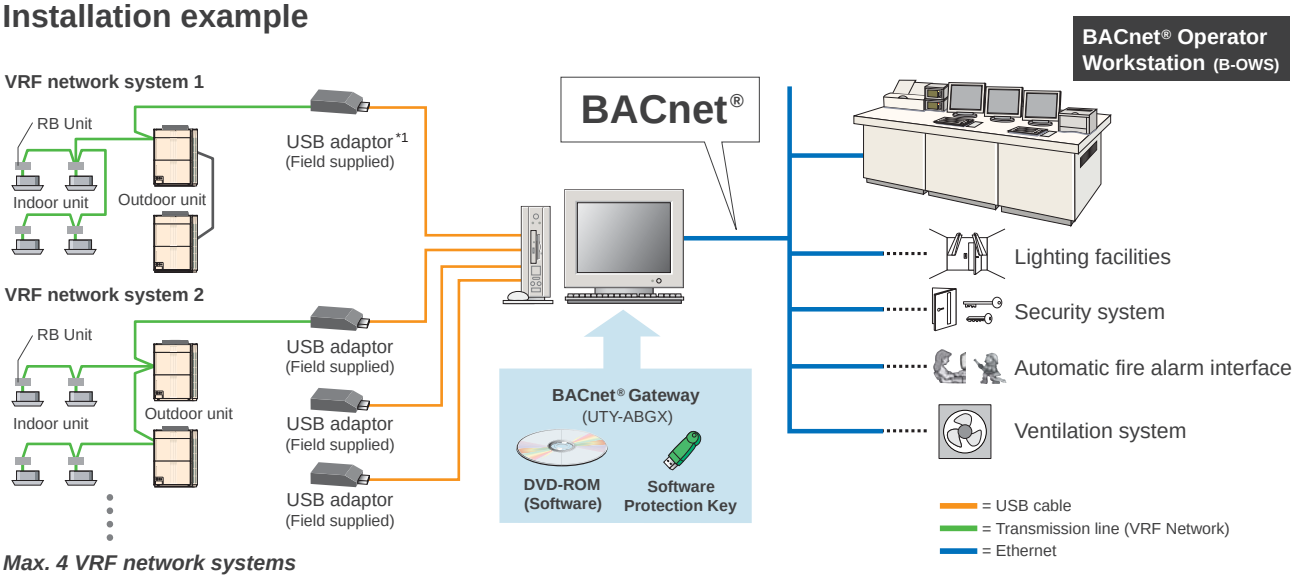


DVD-ROM (Software)

Software Protection Key

BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to requirements of ASHRAE Standard 135 is the responsibility of the BACnet International. BTL is a registered trademark of the BACnet International.

Installation example



Max. 4 VRF network systems

*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

Personal computer system requirements

	UTY-ABGX
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	• For Windows Vista® and Windows® 7 (32-bit): 2 GB or more • For Windows® 7 (64-bit), Windows® 8, and Windows® 8.1: 4 GB or more
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) - 1 USB port is required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Required maximum USB port numbers depend on the applicable system configurations.
Software	Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

<Packing list>

Name and shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals for BACnet® Gateway.
WibuKey (Software protection key)	1	Software protection key to be connected to USB port on the BACnet®-installed PC. BACnet® Gateway runs only on a PC with WibuKey.

Personal computer must be field supplied.
U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R

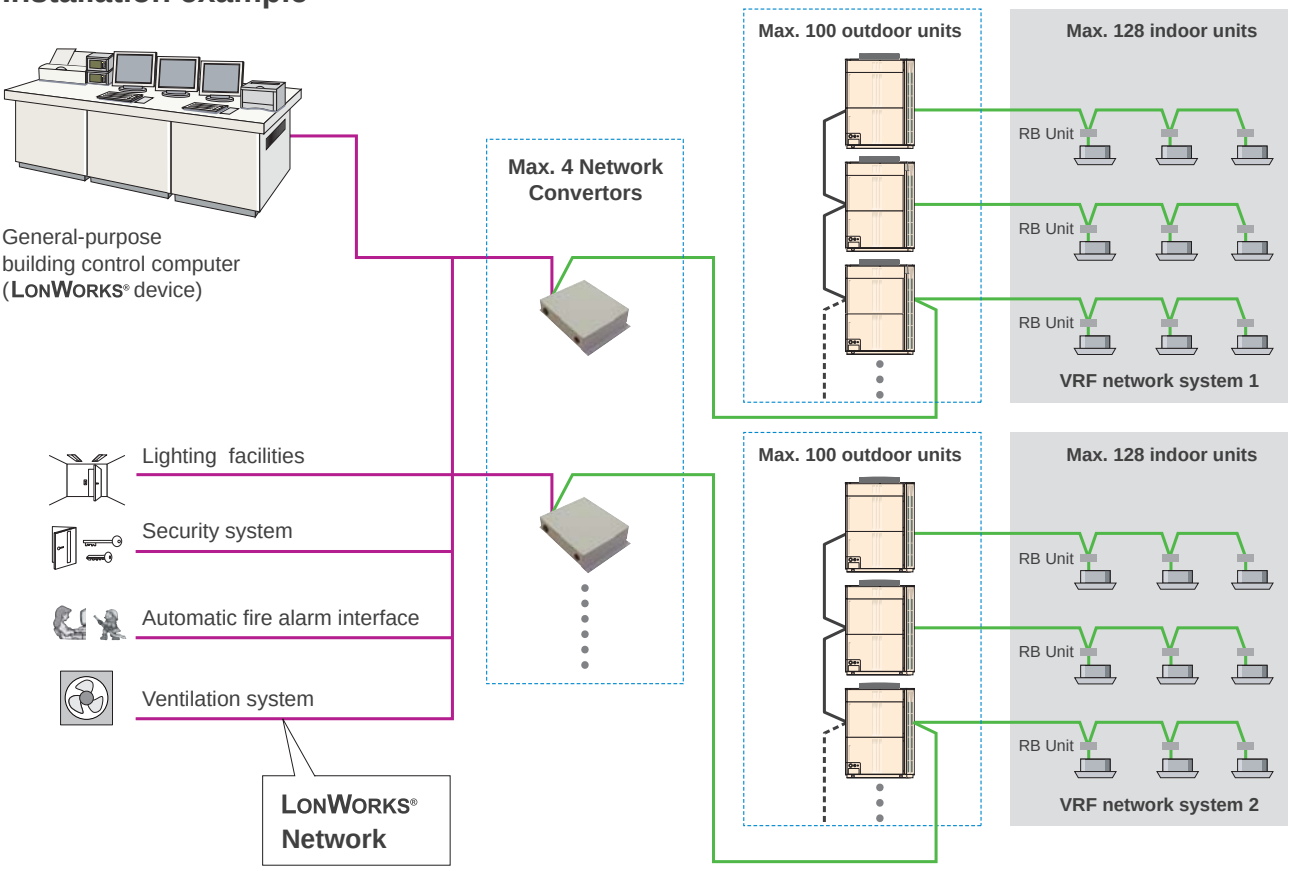
Network Convertor for LonWorks® : UTY-VLGX

Max. controllable 4 units to BMS

Max. controllable 128 indoor units

- For connection between VRF network system and a LonWorks® open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LonWorks® interface.
- Up to 128 Indoor units can be connected to one Network Convertor for LonWorks®

Installation example



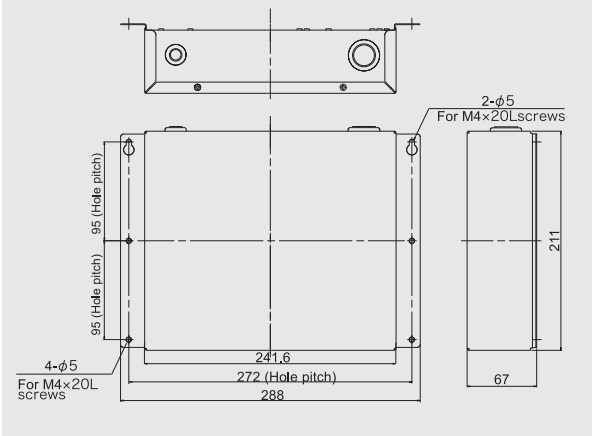
Specifications

Model name	UTY-VLGX
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H x W x D) (mm)	67 x 288 x 211
Weight (g)	1,500

Transmission specifications (BMS side)

Transmission speed	78 kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

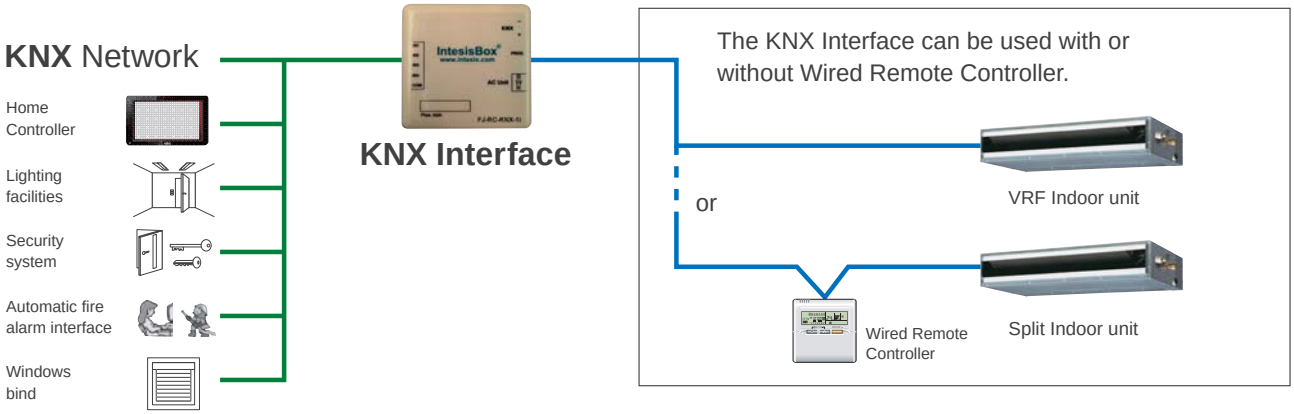
Dimensions (Unit : mm)



KNX® Interface : FJ-RC-KNX-1i

The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

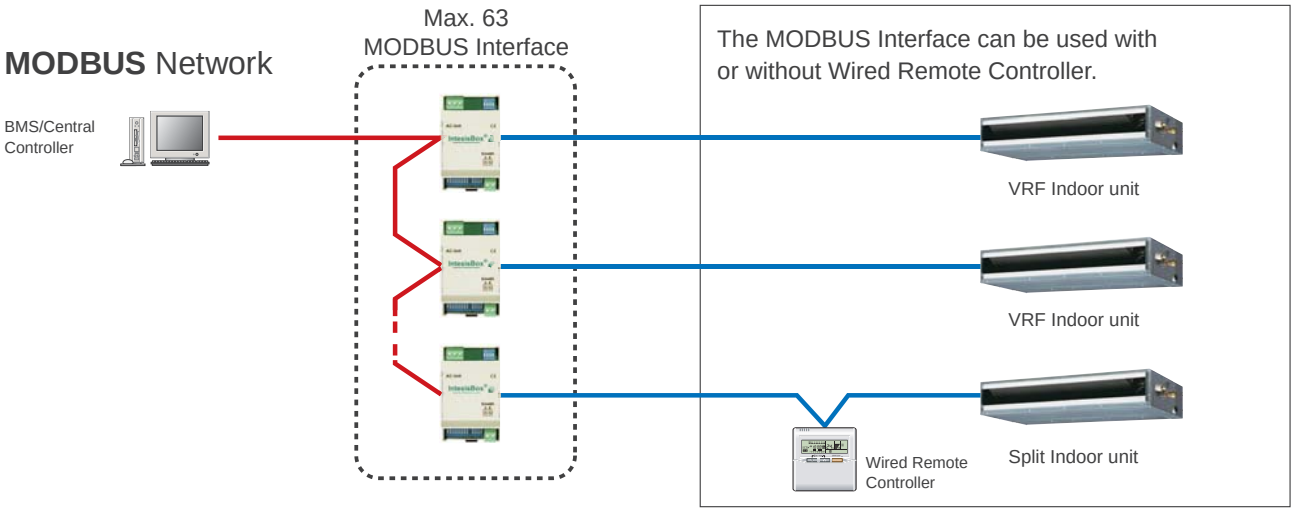
- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.



MODBUS® Interface : FJ-RC-MBS-1

The MODBUS Interface allows a complete integration of air conditioners into MODBUS Networks.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Interface permits central monitoring and control of air conditioners from BMS.



Specifications

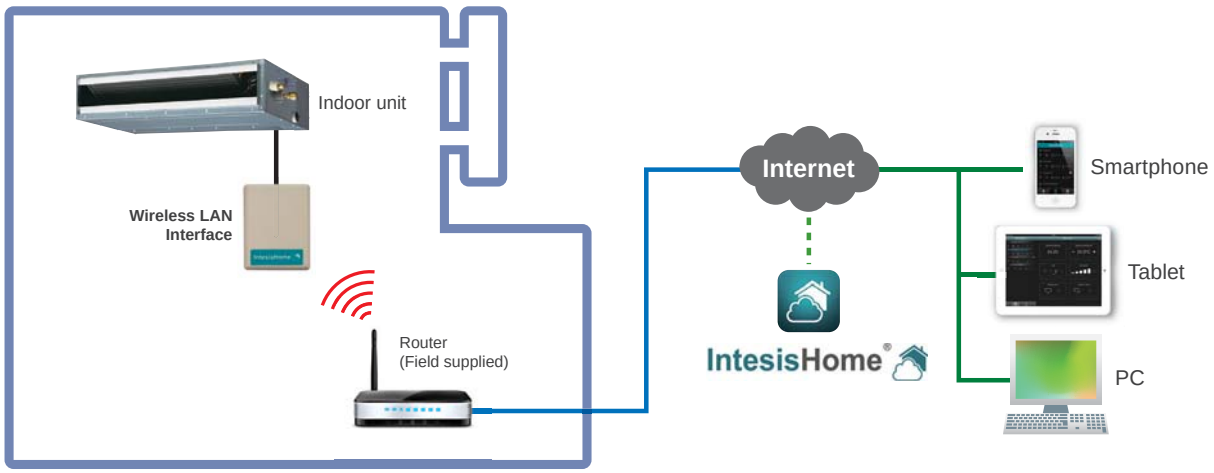
Model name	FJ-RC-MBS-1
Dimensions (H x W x D) (mm)	93×53×58
Weight (g)	85

Model name	FJ-RC-KNX-1i
Dimensions (H x W x D) (mm)	70×70×28
Weight (g)	70

NEW Wireless LAN Interface : FJ-RC-WIFI-1

IntesisHome®

- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required
- Can be used for single indoor units and group controlled (up to 16) indoor units



(Application screen image)

Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature display
- Set temperature control
- Multi Language
- One Scene and Timer

Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedulable functionalities (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

Notifications and history

- Alerts e-mail notification (future release)
- Air conditioning malfunction alerts
- Connectivity monitoring and alerts
- History (future release)

Specifications

Model name	FJ-RC-WIFI-1
Dimensions (H x W x D) (mm)	70×108×28
Weight (g)	80

External Switch Controller : UTY-TEKX

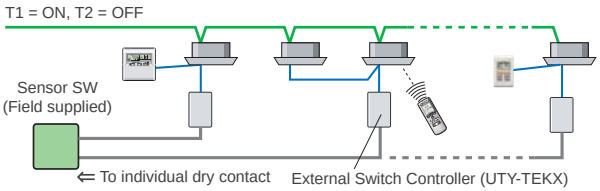
Air conditioner switching can be controlled by connecting other sensor switches

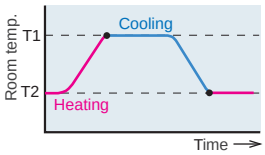
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a field supplied parts.

Installation example

Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and External Switch Controller.

Note: All indoor units will operate in the same mode.

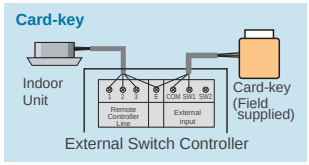


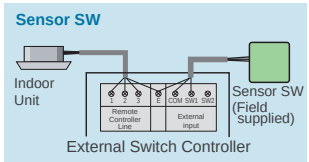


Note 1.
Please choose a thermosensor switch which can be set up for T1 and T2.

Note 2.
The remote controller's operation is prior to the auto mode operation.

Electrical wiring



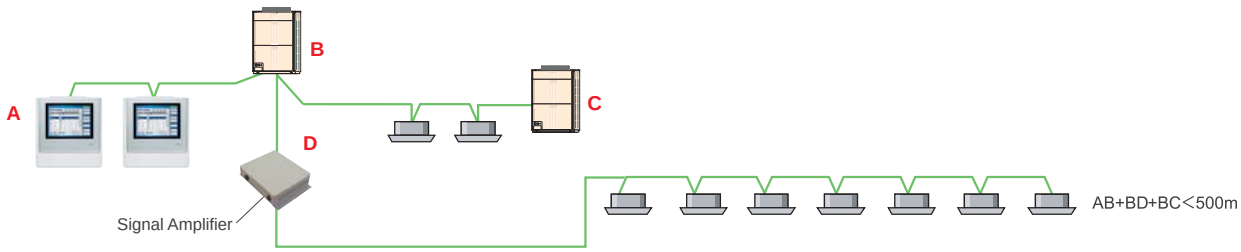


Signal Amplifier : UTY-VSGXZ1

- Transmission Line length can be extended up to 3,600m with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,

(1) When the total wiring length of the transnission line exceeds 500m.
(2) When the total number of units on the transnission line exceeds 64.

Installation example



Specifications

Model name	UTY-TEKX
Power Supply	DC 12V
Dimensions (H x W x D) (mm)	120 x 75 x 30
Weight (g)	100

DC12V is supplied by the indoor unit.

Model name	UTY-VSGXZ1
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H x W x D) (mm)	67 x 288 x 211
Weight (g)	1,500

Max. controllable 16 Network Convertor units

Network Convertor : UTY-VGGXZ1

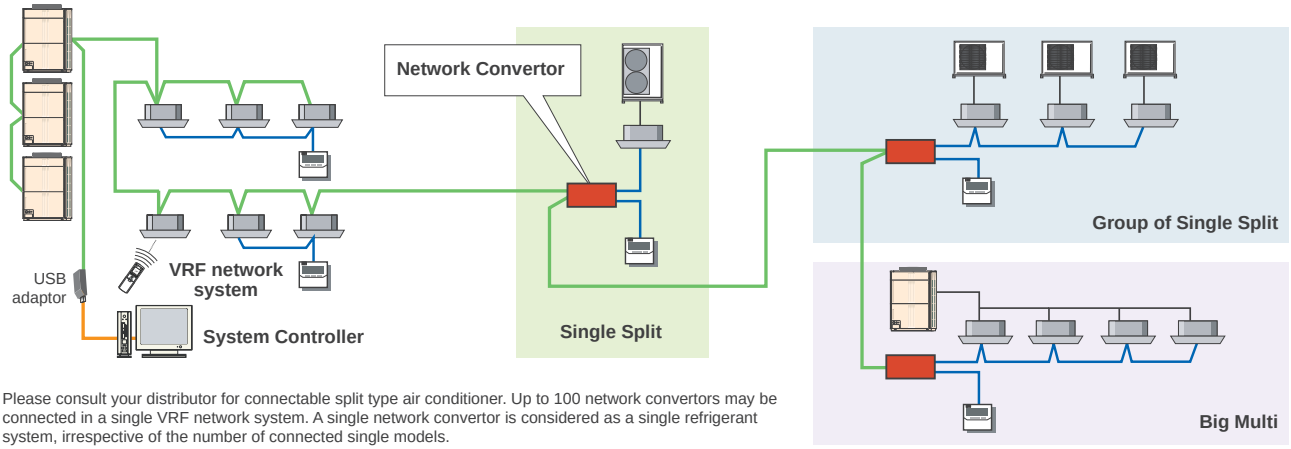
•This network convertor is to be used for connecting single split system or group remote controller with the VRF network system.
•Please select the function by switching the dip switch during the installation.

Installation example

•Split type systems can be controlled from a central remote controller or PC controller through connection to the VRF's network convertor.

•Standard remote controller and central remote controller provide On / Off control, master control, temperature and fan control, etc.

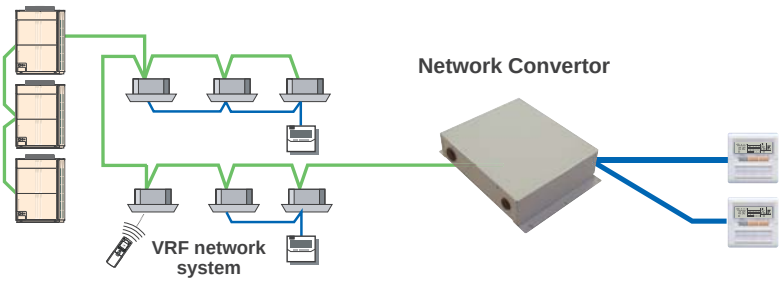
•A single network convertor can be used to connect and control up to 16 single units.



Please consult your distributor for connectable split type air conditioner. Up to 100 network convertors may be connected in a single VRF network system. A single network convertor is considered as a single refrigerant system, irrespective of the number of connected single models.

Used for connecting Group Remote Controller

4 group remort controllers can be connected to a single Network convertor.



* 2 refrigerant circuits can be covered by a single network convertor. Up to a total of 16 network convertors and central remote controller adapters can be connected in a single VRF network system.

Specifications

Model name	UTY-VGGXZ1
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	6.5
Dimensions (H x W x D) (mm)	67 x 288 x 211
Weight (g)	1,500

Service Tool : UTY-ASGX Software

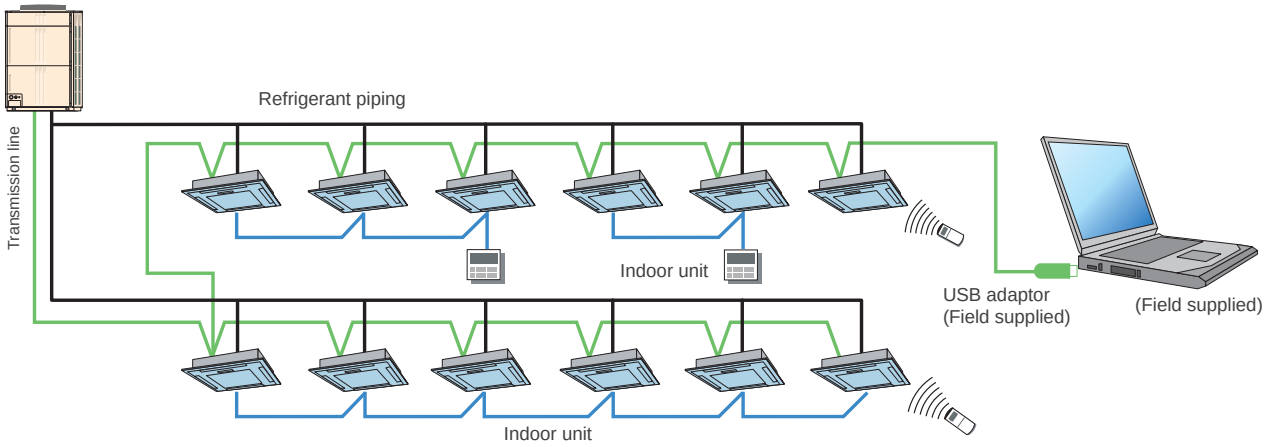
Max. Monitor and controll 400 indoor units

Max. Monitor and controll 100 outdoor units

Extensive monitoring and analysis functions for installation and maintenance

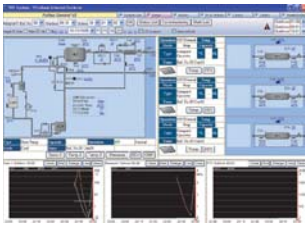
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (field supplied).

Wiring connection



Functions

- Equipment Detail (Diagram)



- Equipment Detail (List)
- Error History
- Remote File Download
- System List
- Commissioning Tool

Personal computer system requirements

	UTY-ASGX
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• For Windows Vista®, Windows® 7 (32-bit), and Windows® 8 (32-bit): 1 GB or more • For Windows®7 (64-bit) and Windows® 8.1 (64-bit): 2 GB or more
HDD	10 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• 2 USB ports - 1 USB port is required for WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface
Software	Internet Explorer® 8.0 or 9.0 or 10.0 / Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

<Packing list>

Name and shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals
WibuKey (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

Personal computer must be field supplied.
U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R

VRF network system can be supported 4

1,600 indoor units can be supported

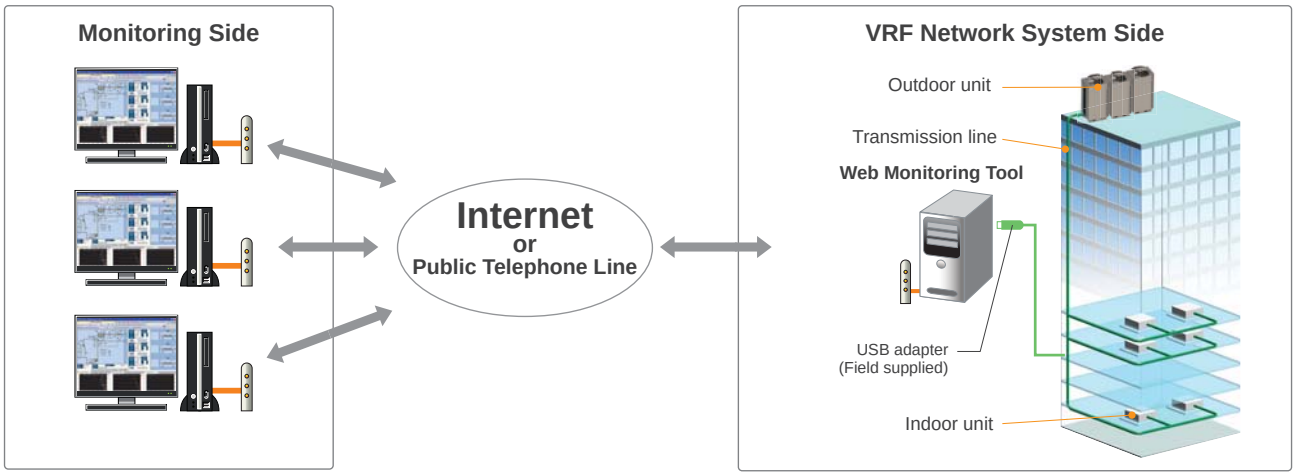
Web Monitoring Tool : UTY-AMGX Software

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.

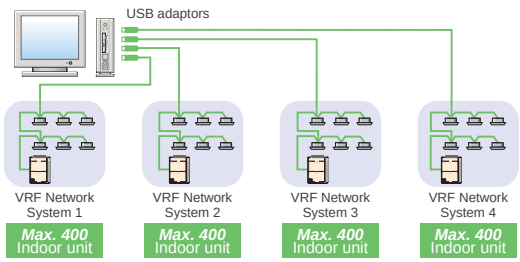
*1: Use of internet mail system required.

Web Monitoring System



Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units.
Suitable for large-scale buildings or hotels.



Personal computer system requirements

	UTY-AMGX
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• For Windows Vista®, Windows® 7 (32-bit), and Windows® 8 (32-bit): 1 GB or more • For Windows® 7 (64-bit) and Windows® 8 (64-bit): 2 GB or more
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 5 ports) - 1 USB port is required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Required maximum USB port numbers depend on the applicable system configurations.
Software	Internet Explorer® 8.0 or 9.0 or 10.0 / Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

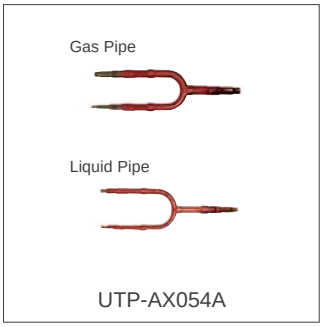
<Packing list>

Name and shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals
Wibu Key (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

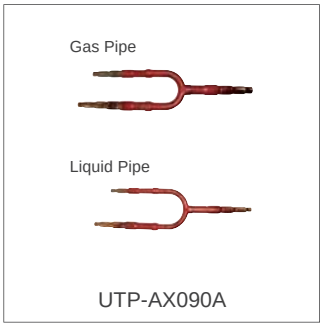
Personal computer must be field supplied.
U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R

Connection Units

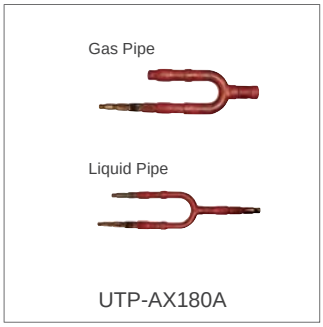
Separation Tube



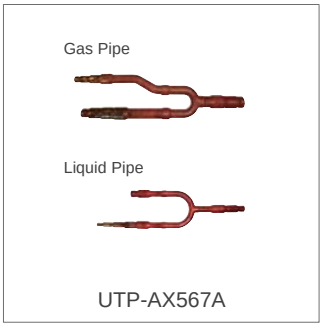
UTP-AX054A



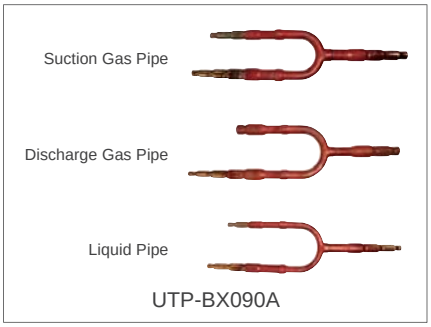
UTP-AX090A



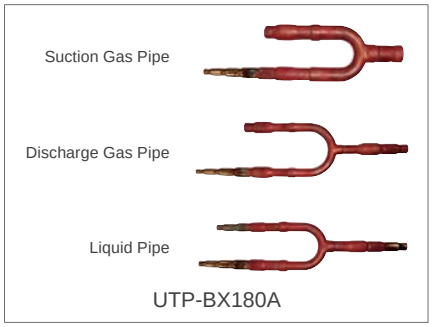
UTP-AX180A



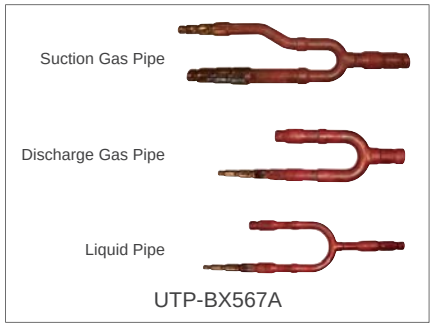
UTP-AX567A



UTP-BX090A

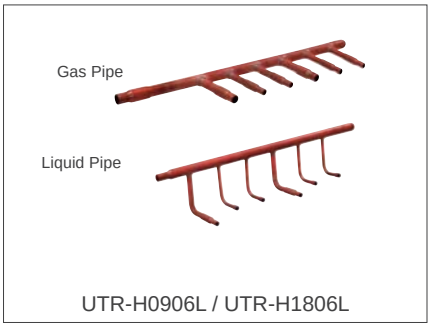


UTP-BX180A

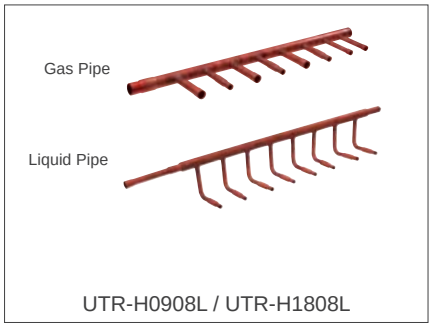


UTP-BX567A

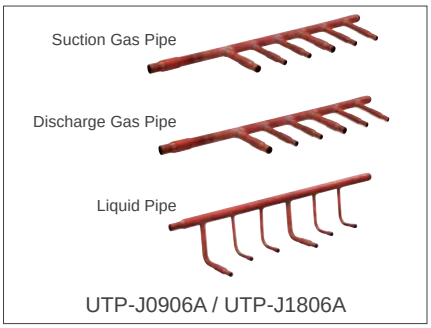
Header



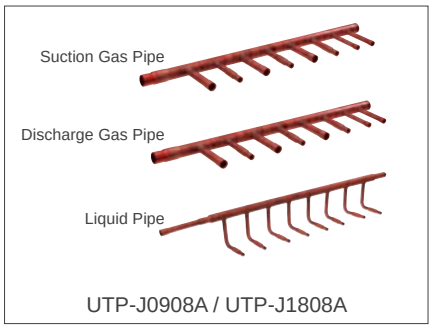
UTR-H0906L / UTR-H1806L



UTR-H0908L / UTR-H1808L

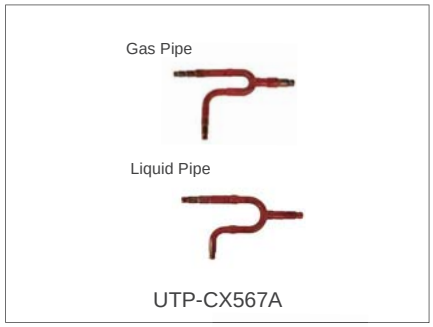


UTP-J0906A / UTP-J1806A



UTP-J0908A / UTP-J1808A

Outdoor Unit Branch Kit



UTP-CX567A

UTP-DX567A

EV Kit

For Compact Wall Mounted type

Model code ≦09 : UTR-EV09XB
Model code ≧12 : UTR-EV14XB

RB Unit

Single type

UTP-RX01AH / UTP-RX01BH / UTP-RX01CH

Multi type

UTP-RX04BH

Specifications

Separation Tube

Model name	UTP-AX054A (for J-IIS only)	UTP-AX090A	UTP-AX180A	UTP-AX567A
Total cooling capacity of indoor unit (kW)	19.6 or less	28.0 or less	28.1 to 56.0	56.1 or more

Model name	UTP-BX090A	UTP-BX180A	UTP-BX567A
Total cooling capacity of indoor unit (kW)	28.0 or less	28.1 to 56.0	56.1 or more

Header

Model name			
	3−6 Branches	UTR-H0906L	UTR-H1806L
	3−8 Branches	UTR-H0908L	UTR-H1808L
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0

Model name			
	3−6 Branches	UTP-J0906A	UTP-J1806A
	3−8 Branches	UTP-J0908A	UTP-J1808A
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0

Outdoor unit Branch kit

Model name		UTP-CX567A (for V-II)	UTP-DX567A (for VR-II)
Number of outdoor unit	2 outdoor units	1	
	3 outdoor units	2	

EV Kit

Model name	UTR-EV09XB	UTR-EV14XB
Application model	ASHE04GACH ASHE07GACH ASHE09GACH	ASHE12GACH ASHE14GACH

RB Unit

Type		Single type			Multi type
Model name		UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Power source	V/Ø/Hz	230/1/50			
Input power	W	17	24	31	96
Number of branches		1	1	1	4
Maximum capacity of connectable indoor units (Q)	kW	Q≧8.0	Q≦18.0	Q≦28.0	Q≦56.0 *1
Maximum capacity of connectable indoor units per branch (Q)	kW	Q≧8.0	Q≦18.0	Q≦28.0	Q≦18.0
Maximum number of connectable indoor units per branch		3	8	8	8
Dimensions (H×W×D)	mm	198×298×268			260×658×428

*1: In case of two RB units connected in series (total 8-branches), maximum capacity of connectable indoor units is up to 56.0 kW.

Controllers

For Individual Control

Wired Remote Controller (Touch Panel)
UTY-RNRG

Wired Remote Controller
NEW UTY-RLRG

Simple Remote Controller
UTY-RSKG
With operation mode

Simple Remote Controller
UTY-RHKG
Without operation mode

Wireless Remote Controller
UTY-LNHG

IR Receiver Unit
UTB-YWC
For All Duct type

IR Receiver Unit
UTY-LRHGB1
For Cassette type

For Centralized Control

Group Remote Controller
UTY-CGGG

Central Remote Controller
UTY-DCGG

Touch Panel Controller
UTY-DTGG

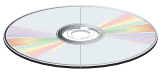
System Controller Lite Software
NEW UTY-ALGX

System Controller Software
UTY-APGX

Convertors / Adaptors

For External device

BACnet® Gateway Software
UTY-ABGX


DVD-ROM (Software)

Software Protection Key

Network Convertor for LonWorks®
UTY-VLGX

KNX® Interface
FJ-RC-KNX-1i

MODBUS® Interface
FJ-RC-MBS-1

Wireless LAN Interface
NEW FJ-RC-WIFI-1

External Switch Controller
UTY-TEKX

For System expansion

Network Convertor
UTY-VGGXZ1

Signal Amplifier
UTY-VSGXZ1

Panels

For Cassette type

Cassette Grille
UTG-UFGC-W
For Compact Cassette type

Cassette Grille
UTG-UGGA-W
For Cassette type

Others

Communication system: External Connect Kit

For Indoor unit

UTY-XWZXZ7

UTY-XWZXZD

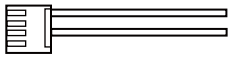
UTY-XWZXZB

UTY-XWZXZE

UTY-XWZXZC

For Outdoor unit

UTY-XWZXZ6

UTY-XWZXZ9 

For RB unit

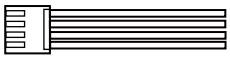
UTY-XWZXZ6

UTY-XWZXZB

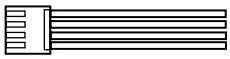
For Central Remote Controller

UTY-XWZXZ7

UTY-XWZXZ8

UTY-XWZXZA 

For Touch Panel Controller

UTY-XWZXZA 

Function list

		Indoor unit	Outdoor unit	Controller		Other
				Central Remote Controller	Touch Panel Controller	RB Unit
Input	Operation / Stop	● UTY-XWZXZD ○ UTY-XWZXZB	—	—	—	—
	All On / All Off	—	—	● UTY-XWZXZ7 ○ UTY-XWZXZ8	—	—
	Batch Stop	—	● UTY-XWZXZ6	—	—	—
	Forced Stop	● UTY-XWZXZD ○ UTY-XWZXZB	—	—	—	—
	Emergency Stop	● UTY-XWZXZD ○ UTY-XWZXZB	● UTY-XWZXZ6	● UTY-XWZXZ7 ○ UTY-XWZXZ8	—	—
	Forced Thermostat off	● UTY-XWZXZE ○ UTY-XWZXZ7	—	—	—	—
	Low Noise Mode Operation	—	● UTY-XWZXZ6	—	—	—
	Cooling / Heating Priority	—	● UTY-XWZXZ6*1	—	—	● UTY-XWZXZ6 ○ UTY-XWZXZB
	"Outdoor Unit Operation Peak Control"	—	● UTY-XWZXZ6	—	—	—
	"Power Usage Information from Electricity Meter"	—	● UTY-XWZXZ6	—	—	—
Output	Operation Status	● UTY-XWZXZC	○ UTY-XWZXZ6	○ UTY-XWZXZA	○ UTY-XWZXZA	—
	Error Status	● UTY-XWZXZC	○ UTY-XWZXZ6	○ UTY-XWZXZA	○ UTY-XWZXZA	—
	Indoor Unit Fun Operation Status	● UTY-XWZXZC	—	—	—	—
	Auxiliary Heater Output	● UTY-XWZXZC*2	—	—	—	—
	Base Heater	—	● UTY-XWZXZ9	—	—	—

*1. Heat Pump type only *2. Duct type only

● : Dry Contact ○ : Apply Voltage

For Duct type

Flange (Round)
UTD-RF204

For Medium Static Pressure Duct type / Ceiling type

Flange (Square)
UTD-SF045T

For Medium Static Pressure Duct type

Remote Sensor Unit
UTY-XSZX

For All Duct type

New amenity space can be offered by installing the Remote sensor.

Long-Life Filter
UTD-LF25NA

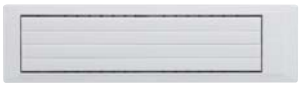
For Medium Static Pressure Duct type

UTD-LF60KA

For High Static Pressure Duct type

Auto Louver Grille Kit
UTD-GXSA-W (for ARXD04/07/09/12/14GALH)
UTD-GXSB-W (for ARXD18GALH)
UTD-GXSC-W (for ARXD24GALH)

For Slim Duct type



Drain Pump Unit
UTZ-PX1BBA

For Low Static Pressure Duct type

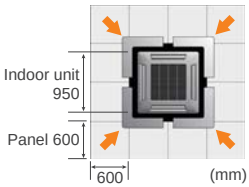
UTZ-PX1NBA

For Medium Static Pressure Duct type

For Cassette type

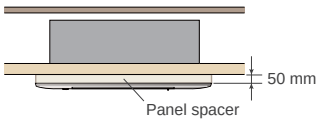
Wide Panel
UTG-AGYA-W

For Cassette type

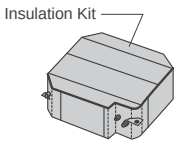


Panel Spacer
UTG-BGYA-W

For Cassette type



Insulation Kit for High Humidity
UTZ-KXGA **For Cassette type**
UTZ-KXGB **For Slim Cassette type**
UTZ-KXGC **For Compact Cassette type**



Fresh Air Intake Kit
UTZ-VXAA

For Compact Cassette type

UTZ-VXGA

For Cassette type

Air Outlet Shutter Plate
UTR-YDZB

For Compact Cassette type

Shuts the air outlet when only using as 3 blow out.

Air Outlet Shutter Plate
UTR-YDZC

For Cassette type

Shuts the air outlet when only using as 3 blow out.

For Ceiling type

Drain Pump Unit
UTR-DPB24T

For Ceiling type

Comfortable Function

Human sensor
Human sensor catches movements of people in a room.

Up / down swing flaps
The up / down flaps automatically swing up and down.

Double swing automatic
Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.

Automatic air flow adjustment
The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.

Auto restart
In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.

Auto-changeover
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.

10°C HEAT operation
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.

Connectable distributing duct

Connectable fresh air duct

Fresh air intake
Fresh air can be taken in by a fan which can be connected using external control unit.

Economy mode
Limits the maximum operation current, and performs operation with the power consumption suppressed.

Powerful mode
Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.

Low Noise Mode
Sound noise level of outdoor unit can be selected.

V-PAM control models

i-PAM control models

Convenient Function

Sleep timer
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.

Program timer
This digital timer allows selection of one of four options:
ON, OFF, ON→OFF or OFF→ON.

Weekly timer
Different ON-OFF times can be set for each day.

Weekly + setback timer
Weekly + Setback timer can set temperature for two times spans and for each day of the week.

Filter sign
Indicates the filter cleaning period by lamp.

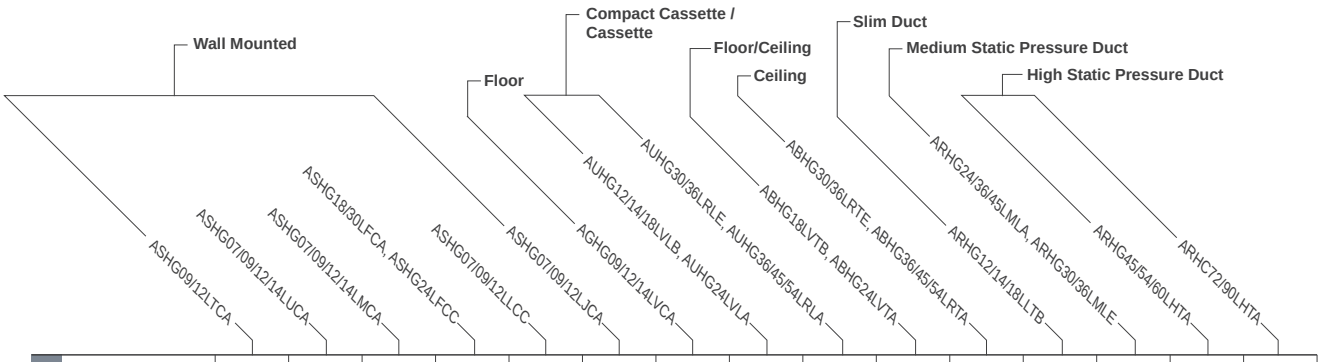
Clean Function

Ion deodorization filter
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

Apple-catechin filter
The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

Washable panel

Feature Summary



Comfortable function	Human sensor	●														
	Up / down swing flaps	●	●	●		●	●	●	●	●			○			
	Double swing automatic				●						●	●				
	Automatic air flow adjustment	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Auto-changeover	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	10°C heat operation	●	●	●	●		●	●	●	○	●	●	○	○	○ (60)	
	Connectable distributing duct									●				●		
	Connectable fresh air duct								○	●		●	○	●		○
	Fresh air intake								○	○		○	○	○	○	○
	Economy mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Powerful mode	●	●	●		●										
	Low Noise mode	●	●	●						○ (45/54) (36LRLA)		○ (45/54) (36LRTA)		○ (45) (36LMLA)	○	○
Convenient function	Sleep timer	●	●	●	●	●	●	●	●	○	●	●	○	○	○ (60)	○
	Program timer	●	●	●	●	●	●	●	●	○	●	●	○	○	○ (60)	○
	Weekly timer	●	●													
	Weekly + setback timer	○	○	○	○		○	○	○	●	○	○	●	●	●	●
	Filter sign	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Clean function	Ion deodorization filter	●	●	●	●		●	●								
	Apple-catechin filter	●	●	●	●		●	●								
	Washable panel			●	●	●	●	●								

○: Optional function